

REPLACEMENT SHEETS

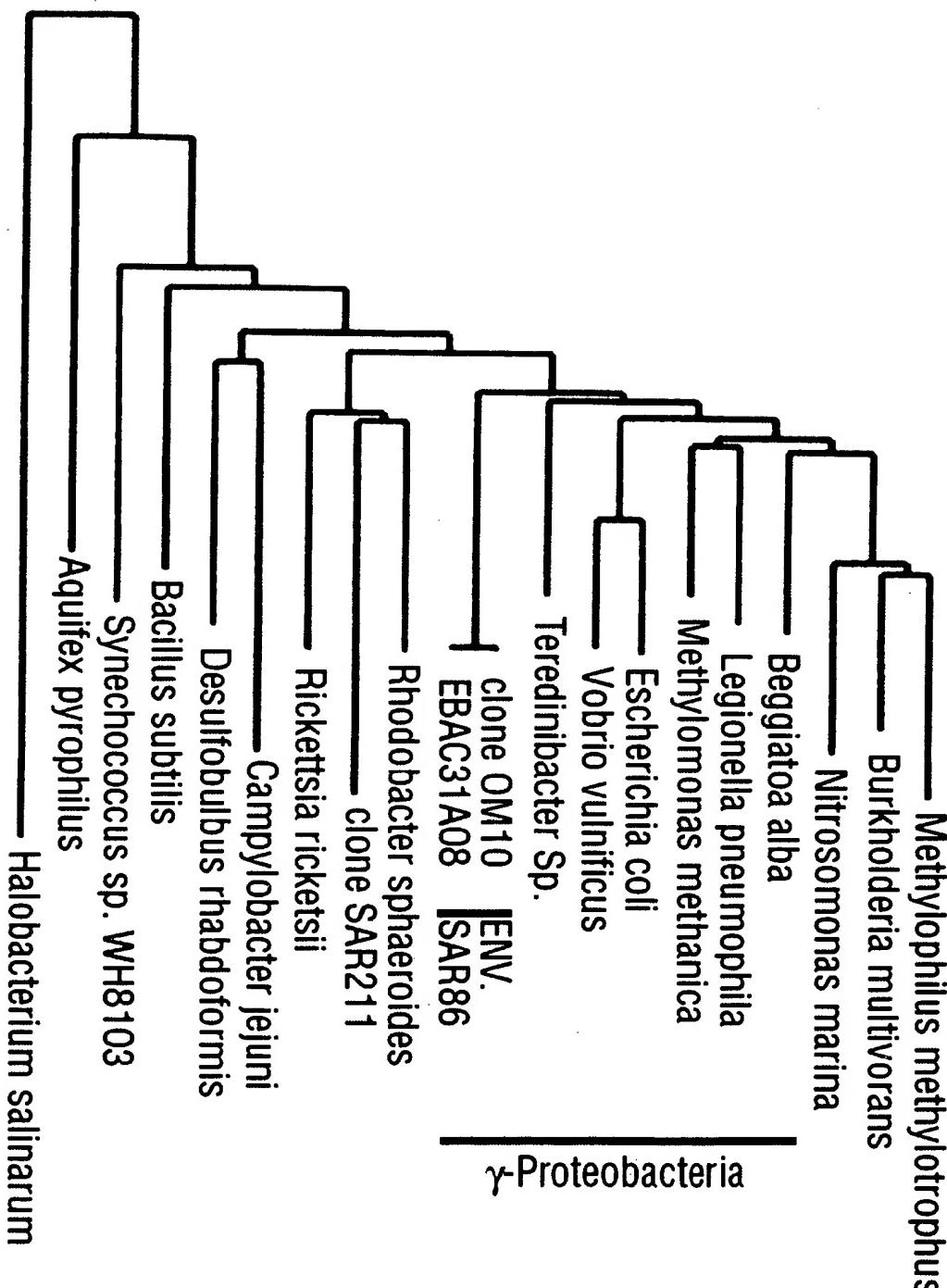


Figure 1

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48	
Met	Gly	Lys	Leu	Leu	Ile	Leu	Ile	Leu	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr		
1										5						15		
	ttt	gct	gca	ggt	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt	96	
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val		
										20					30			
	tct	ttt	tgg	tta	gtt	act	gct	gct	tta	tta	gca	tct	act	gta	ttt	ttc	144	
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe		
												40			45			
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192	
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr			
												55			60			
	gta	tct	ggt	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240	
Val	Ser	Gly	Ieu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met			
												75			80			
	aga	ggg	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288	
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr			
															85			
															90			
	att	gat	tgg	tta	cta	aca	gtt	cct	cta	tta	ata	tgt	gaa	ttc	tac	tta		336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu			
												100			105			

Figure 4-A

REPLACEMENT SHEETS

att	ctt	gct	gct	gca	act	aat	gtt	gct	gga	tca	tta	ttt	aag	aaa	tta	384
Ile	Leu	Ala	Ala	Ala	Thr	Asn	Val	Ala	Gly	Ser	Leu	Phe	Lys	Lys	Leu	
115							120						125			
cta	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gaa	gca	432
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala	
130						135					140					
gga	atc	atg	gct	gca	tgg	cct	gca	ttc	att	att	ggg	tgt	tta	gct	tgg	480
Gly	Ile	Met	Ala	Ala	Trp	Pro	Ala	Phe	Ile	Ile	Gly	Cys	Leu	Ala	Trp	
145						150					155					
gta	tac	atg	att	tat	gaa	tta	tgg	gct	gga	gaa	gga	aaa	tct	gca	tgt	528
Val	Tyr	Met	Ile	Tyr	Glu	Leu	Trp	Ala	Gly	Glu	Gly	Lys	Ser	Ala	Cys	
165									170				175			
aat	act	gca	agt	cct	gct	gtg	caa	tca	gct	tac	aac	aca	atg	atg	tat	576
Asn	Thr	Ala	Ser	Pro	Ala	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Tyr	
180								185				190				
att	atc	atc	ttt	ggt	tgg	gct	att	tat	cct	gta	ggt	tat	ttc	aca	ggt	624
Ile	Ile	Ile	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly	
195						200						205				
tac	ctg	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	atc	tat	672
Tyr	Leu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Leu	Asn	Leu	Ile	Tyr	
210						215					220					

Figure 4-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	gtt	tta	att	ata	tgg	720
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Ile	Phe	Gly	Ieu	Ile	Ile	Trp	
225					230					235						
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gtt							
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245										250						
																750

Figure 4-C

REPLACEMENT SHEETS

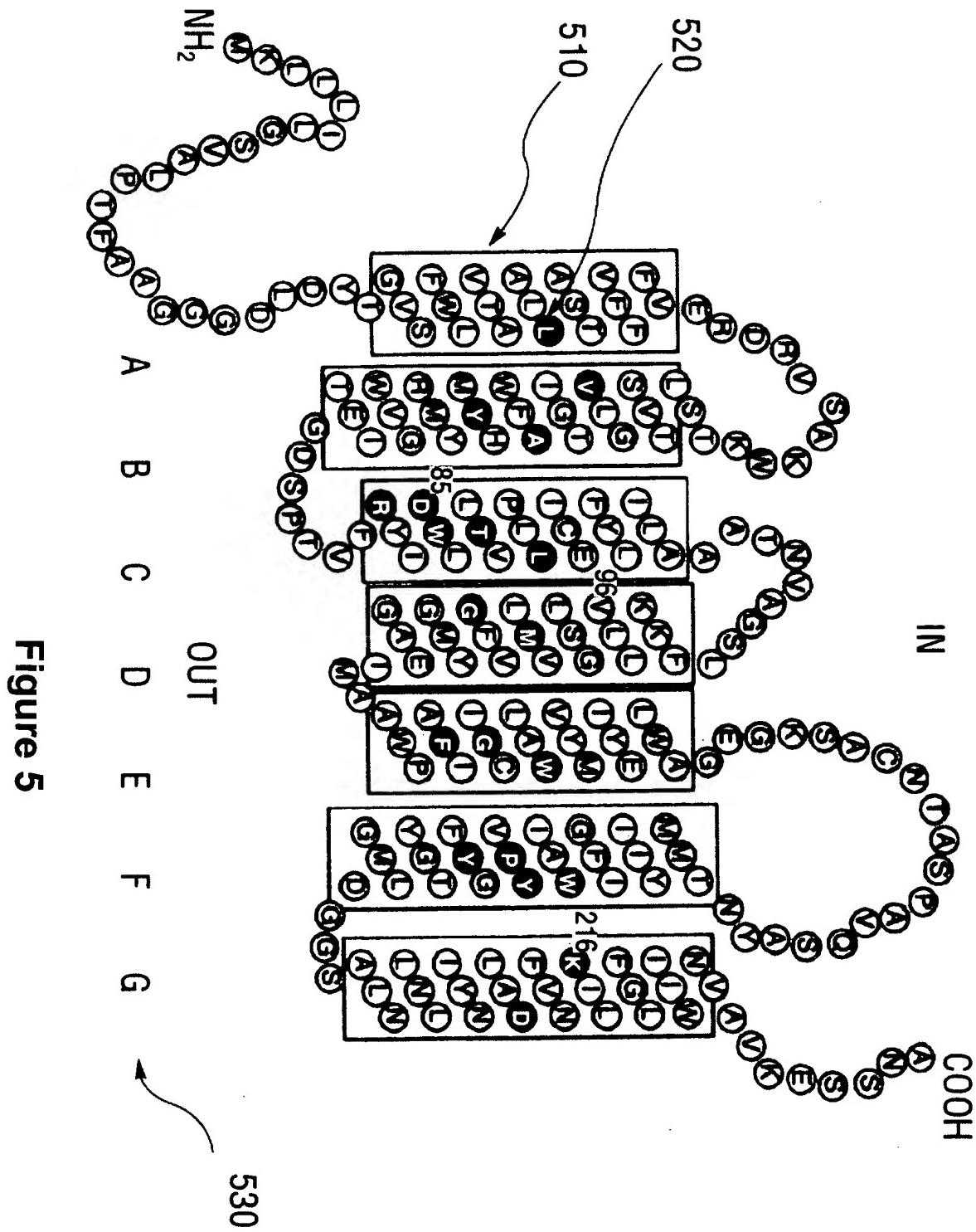


Figure 5

REPLACEMENT SHEETS

atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Leu	Leu	Ile	Leu	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr	
1					5				10						15	
ttt	gct	gca	ggt	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt	96
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val
									25					30		
tct	ttt	tgg	tta	gtt	act	gct	cta	tta	gca	tct	act	gta	ttt	ttc		144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Leu	Ala	Ser	Thr	Val	Phe	Phe		
					35				40				45			
ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr	
					50				55			60				
gtt	tcg	ggg	ggt	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tg	240
Val	Ser	Gly	Ieu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met	
					65				70			75			80	
aga	ggg	gta	tgg	att	gag	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr	
					85				90				95			
att	gat	tgg	tta	ctt	aca	gtt	cct	cta	ttg	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu	
					100				105			110				

Figure 6-A

REPLACEMENT SHEETS

att	ctt	gct	gct	gca	aca	aat	gtt	gct	ggc	ctg	ttt	aag	aaa	tta	384
Ile	Leu	Ala	Ala	Ala	Ala	Thr	Asn	Val	Ala	Ala	Gly	Leu	Phe	Lys	Leu
115								120						125	
ttg	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gag	gca
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala
130						135					140				432
gga	att	atg	aac	gct	tgg	ggt	gca	ttc	gtt	att	ggg	tgt	tta	gct	tg
Gly	Ile	Met	Asn	Ala	Trp	Gly	Ala	Phe	Val	Ile	Gly	Cys	Leu	Ala	Trp
145					150					155					480
gta	tac	atg	att	tat	gaa	cta	tgg	gct	gga	gaa	ggc	aag	gct	gca	tgt
Val	Tyr	Met	Ile	Tyr	Glu	Leu	Trp	Ala	Gly	Glu	Gly	Lys	Ala	Ala	Cys
					165				170				175		528
aat	act	gca	agt	cct	gct	gtg	caa	tca	gct	tac	aac	aca	atg	atg	tat
Asn	Thr	Ala	Ser	Pro	Ala	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Tyr
					180				185				190		576
ata	atc	atc	ttt	ggt	tgg	gca	att	tat	cct	gta	ggt	tat	ttc	aca	ggt
Ile	Ile	Ile	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly
					195				200			205			624
tac	cta	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	atc	tat
Tyr	Leu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Leu	Asn	Leu	Ile	Tyr
					215					220					672

Figure 6-B

REPLACEMENT SHEETS

gac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	gtt	tta	att	ata	tgg	720
Asp	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Ile	Phe	Gly	Leu	Ile	Ile	Trp	
225					230					235						
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct							
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245										250						
																750

Figure 6-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Leu	Ile	Leu	Ile	Leu	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr	
1										5						15	
	ttt	gct	gca	ggc	ggc	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val
										20						30	
	tct	ttt	tgg	tta	gct	act	gct	gct	tta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Ala	Thr	Ala	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	
												35				45	
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
											50					60	
	gta	tct	ggc	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240
Val	Ser	Gly	Leu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met		
											65					75	
	aga	ggg	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		
											85					90	
	att	gat	tgg	tta	cta	aca	gtt	cct	cta	tta	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu		
											100					105	
																110	

Figure 7-A

REPLACEMENT SHEETS

att	ctt	gct	gct	gct	act	aat	gtt	gct	gga	tca	tta	ttt	aag	aaa	tta	384
Ile	Leu	Ala	Ala	Ala	Thr	Asn	Val	Ala	Gly	Ser	Leu	Phe	Lys	Lys	Leu	
115						120						125				
cta	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gaa	gca	432
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala	
130						135					140					
gga	atc	atg	gct	gca	tgg	cct	gca	tcc	att	att	ggg	tgt	tta	gct	tgg	480
Gly	Ile	Met	Ala	Ala	Trp	Pro	Ala	Phe	Ile	Ile	Gly	Cys	Leu	Ala	Trp	
145						150					155					
gta	tac	atg	att	tat	gaa	cta	tgg	gct	gga	gaa	gga	aaa	tct	gca	tgt	528
Val	Tyr	Met	Ile	Tyr	Glu	Leu	Trp	Ala	Gly	Glu	Gly	Lys	Ser	Ala	Cys	
165									170			175				
aat	act	gca	agt	cct	gct	gtg	caa	tca	gct	tac	aac	aca	atg	atg	tat	576
Asn	Thr	Ala	Ser	Pro	Ala	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Tyr	
180									185			190				
att	atc	atc	ttt	ggt	tgg	gct	att	tat	cct	gta	ggt	tat	ttc	aca	ggt	624
Ile	Ile	Ile	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly	
195							200					205				
tac	ctg	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	atc	tat	672
Tyr	Ile	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Ileu	Asn	Leu	Ile	Tyr	
210							215					220				

Figure 7-B

REPLACEMENT SHEETS

aac	ctt	gct	gat	ttt	gtt	aac	aag	att	cta	ttt	gtt	tta	att	ata	tgg	720
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	Trp	
225					230											
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gtt							
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245										250						
																750

Figure 7-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Ile	Leu	Ile	Ile	Ile	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr	15
1																	10
	ttt	gct	gca	ggc	ggc	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt	96
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val	20
																	25
	tct	ttt	tgg	tta	gtt	aca	gct	gct	cta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Val	Thr	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	35
																	40
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr	50	
																55	
	gtt	tct	ggt	ctt	gtt	act	gtt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240
Val	Ser	Gly	Leu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met	65	
																70	
	aga	gga	gta	tgg	att	gaa	act	ggt	gat	tcg	cct	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr	85	
																90	
	att	gat	tgg	tta	cta	aca	gtt	cct	tta	ata	tgt	gaa	ttc	tac	tta		336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Ile	Cys	Glu	Phe	Tyr	Leu		100	
																105	
																110	

Figure 8-A

REPLACEMENT SHEETS

	att	ctt	gct	gct	gca	act	aat	gtt	gcc	ggc	tca	tta	ttt	aag	aaa	ctt	384
Ile	Leu	Ala	Ala	Ala	Thr	Asn	Val	Ala	Gly	Ser	Leu	Phe	Lys	Lys	Ieu		
115								120						125			
cta	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gaa	gca	432	
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala		
130						135					140						
gga	att	atg	gca	gct	tgg	cct	gca	ttc	att	att	ggg	tgt	tta	gct	tgg	480	
Gly	Ile	Met	Ala	Ala	Trp	Pro	Ala	Phe	Ile	Ile	Gly	Cys	Leu	Ala	Trp		
145						150					155						
gta	tac	atg	att	tat	gaa	cta	tat	gct	gga	gaa	gga	aaa	tct	gca	tgt	528	
Val	Tyr	Met	Ile	Tyr	Glu	Leu	Tyr	Ala	Gly	Glu	Gly	Lys	Ser	Ala	Cys		
						165					170						
aat	act	gca	agt	cct	tgc	caa	tca	gct	tac	aac	aca	atg	atg	gct	576		
Asn	Thr	Ala	Ser	Pro	Ser	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Ala		
						180					185						
atc	ata	gtc	tcc	ggt	tgg	gca	att	tat	cct	ata	ggt	tat	tcc	aca	ggt	624	
Ile	Ile	Val	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Ile	Gly	Tyr	Phe	Thr	Gly		
195						200					205						
tac	cta	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	att	tat	672	
Tyr	Leu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Ieu	Asn	Leu	Asn	Leu	Ile	Tyr		
210						215					220						

Figure 8-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	gtt	tta	att	ata	tgg	720	
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	Trp		
225					230					235					240		
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gtt								
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala								
245										250							
																750	

Figure 8-C

REPLACEMENT SHEETS

EBAC31A8	1	atgggtaat	tattactgat	attaggTAGT	GTTATTGCAC	TTCCTACATT	50
EBAC40	1	.....	.....	.....	.....	.....	50
EBAC41	1	.....	.....	.....	.....	.....	50
EBAC64	1	.....	.....	.....	.....	.....	50
EBAC31A8	51	TGCTGCAGGT	GGTGGTGACC	TTGATGCTAG	TGATTACACT	GGTGTTCCTT	100
EBAC40	51	.....	.....	.....	.....	.....	100
EBAC41	51	.....	.....	.....	.....	.....	100
EBAC64	51	.....	.....	.....	.....	.....	100
EBAC31A8	101	TTTGCGTTAGT	TACTGCTGCT	TTATTAGCAT	CTACTGTATT	TTTCTTTGTT	150
EBAC40	101	.....	.....	.....	C.....	.....	150
EBAC41	101	.....	.....	.....	.....	.....	150
EBAC64	101	.....	.....	.....	A.....	C.....	150
EBAC31A8	151	GAAAGAGATA	GAGTTCTGC	AAATGGAAA	ACATCATTA	CTGTATCTGG	200
EBAC40	151	.....	.....	.....	.....	.....	200
EBAC41	151	.....	.....	.....	.....	.....	200
EBAC64	151	.....	.....	.....	.....	.....	200
EBAC31A8	201	TCTTGTTACT	GGTATTGCTT	TCTGGCATTA	CATGTACATG	AGAGGGTAT	250
EBAC40	201	.....	.....	.....	.....	.....	250
EBAC41	201	.....	.....	.....	.....	.....	250
EBAC64	201	.....	.....	.....	.....	A.....	250
EBAC31A8	251	GGATTGAAAC	TGGTGATTG	CCAAGTGAT	TTAGATACAT	TGATTGGTTA	300
EBAC40	251	.....	.....	.....	.....	.....	300
EBAC41	251	.....	.....	.....	.....	.....	300
EBAC64	251	.....	.....	.....	T.....	.....	300

Figure 9-A

REPLACEMENT SHEETS

EBAC31A8	301	CTAACAGTTC	CTCTTAAAT	ATGGAAATC	TACTTAATT	TTGCTGCTGC	350
EBAC40	301	.....	.....	G..	.....	.....	350
EBAC41	301	.....	.....	.....	.....	.....	350
EBAC64	301	.....	.....	T.	.....	.....	350
EBAC31A8	351	AACTAATGTT	GCTGGATCAT	TATTAAGAA	ATTAAGT	GGTTCTCTTG	400
EBAC40	351	....A.....	....CTGGCC	.G.....	....T.G..	.....	400
EBAC41	351	T.....	.....	.....	.....	.....	400
EBAC64	351	.....	..C..C..	.....	C.T.....	.....	400
EBAC31A8	401	TTATGCTTGT	GTITGGTTAC	ATGGGTGAAG	CAGGAATCAT	GGCTGCATGG	450
EBAC40	401	.....	.....	.....	G..T..	AAC..T..	450
EBAC41	401	.....	.....	.....	.....	.....	450
EBAC64	401	.....	.....	.....	.....	A..T..	450
EBAC31A8	451	CCTGCATTCA	TTATTGGGTG	TTTAGCTTGG	GTATACATGA	TTTATGAAATT	500
EBAC40	451	GG.....	.....G	.....	.....	.....C..	500
EBAC41	451	.....	.....	.....	.....	.....C..	500
EBAC64	451	.....	.....	.....	.....	.....C..	500
EBAC31A8	501	ATGGGCTGGA	GAAGGAAAT	CTGCATGTAA	TACTGCAAGT	CCTGCTGTGC	550
EBAC40	501	.....	...C..GG	.....	.....	.....	550
EBAC41	501	.....	.....	.....	.....	.....	550
EBAC64	501	..AT..	.....	.....	.....	T.G..T..	550
EBAC31A8	551	AATCAGGCTTA	CAACACAATG	ATGTATATTA	TCATCTTGG	TTGGGCCATT	600
EBAC40	551	.....	.....	.....A..	.....	.....A..	600
EBAC41	551	.....	.....	.....	.....	.....	600
EBAC64	551	.....	.....	.....GC..C..	..AG..C..	.....A..	600

Figure 9-B

REPLACEMENT SHEETS

EBAC31A8	601	TATCCTGTCAG	GTTATTTCAC	AGGTTACCTG	ATGGGTGACCG	GTGGATCAGC	650
EBAC40	601	.....	.....	.....	.....	.....	650
EBAC41	601	.....	.....	.....	.....	.....	650
EBAC64	601	.....	.....	.....	.....	.....	650
EBAC31A8	651	TCTTAACCTTA	AACCTTATCT	ATAACCTTGC	TGACTTTGTT	AACAAGATTC	700
EBAC40	651	.....	.....	.....	.....	.....	700
EBAC41	651	.....	.....	.....	.....	.....	700
EBAC64	651	.....	.....	.....	.....	.....	700
EBAC31A8	701	TATTTGGTTT	AATTATATGG	AATGTTgtcg	ttaaagaatac	ttcttaatgct	750
EBAC40	701	.....	.....	.....	.....	.....	750
EBAC41	701	.....	.....	.....	.....	.....	750
EBAC64	701	.....	.....	.....	.....	.....	750

Figure 9-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Ieu	Ieu	Ieu	Ile	Ieu	Ile	Ieu	Ser	Val	Ile	Ala	Leu	Pro	Thr	
1																	15
	ttt	gct	gca	ggc	ggc	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val
	20																96
	tct	ttt	tgg	tta	gtt	act	gct	gct	cta	tta	gca	tct	act	gta	ttt	ttc	
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	
	35																144
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		192
	50																
	gta	tcg	ggc	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	
Val	Ser	Gly	Ieu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met		
	65																240
	aga	ggg	gta	tgg	att	gag	acc	ggc	gat	tcg	cca	act	gta	ttt	aga	tac	
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		
	85																288
	att	gat	tgg	tta	ctc	aca	gtt	cct	cta	ttg	ata	tgt	gaa	ttc	tac	tta	
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu		
	100																336

Figure 11-A

REPLACEMENT SHEETS

att	ctt	gct	gct	gca	aca	aat	gtt	gct	ggc	ctg	ttt	aag	aaa	tta	384
Ile	Ieu	Ala	Ala	Ala	Thr	Asn	Val	Ala	Ala	Gly	Leu	Phe	Lys	Lys	Leu
115							120				125				
ttg	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gag	gca
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala
130						135				140					432
gga	att	atg	aac	gct	tgg	ggt	gca	ttc	gtt	att	ggg	tgt	tta	gct	tgg
Gly	Ile	Met	Asn	Ala	Trp	Gly	Ala	Phe	Val	Ile	Gly	Cys	Leu	Ala	Trp
145					150				155						480
gta	tac	atg	att	tat	gaa	cta	tgg	gct	gga	gaa	ggc	aag	gct	gca	tgt
Val	Tyr	Met	Ile	Tyr	Glu	Leu	Trp	Ala	Gly	Glu	Gly	Lys	Ala	Ala	Cys
					165				170				175		528
aat	act	gca	agt	cct	gct	gtg	caa	tca	gct	tac	aac	aca	atg	atg	tat
Asn	Thr	Ala	Ser	Pro	Ala	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Tyr
					180				185				190		576
ata	atc	atc	ttt	ggt	tgg	gca	att	tat	cct	gta	ggt	tat	ttc	aca	ggt
Ile	Ile	Ile	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly
					195				200			205			624
tac	cta	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	atc	tat
Tyr	Ieu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Ieu	Asn	Leu	Ile	Tyr
					210				215			220			672

Figure 11-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	gtt	tta	att	ata	tgg	720
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	Trp	
225					230					235					240	
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct							
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245					250											
																750

Figure 11-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	att	gca	ctt	cca	tca	48	
Met	Gly	Lys	Ieu	Ieu	Ieu	Ieu	Ile	Ieu	Ile	Ser	Ala	Ile	Ala	Leu	Pro	Ser	
1										5					15		
	ttt	gct	gct	gct	ggt	ggc	gat	cta	gat	ata	agt	gat	act	gtt	ggt	96	
Phe	Ala	Ala	Ala	Gly	Gly	Asp	Leu	Asp	Ile	Ser	Asp	Thr	Val	Gly	Val		
									20			25		30			
	tca	ttc	tgg	ctg	gtt	aca	gct	ggt	atg	tta	gcg	gca	act	gtg	ttc	144	
Ser	Phe	Trp	Leu	Val	Thr	Ala	Gly	Met	Leu	Ala	Ala	Thr	Val	Phe	Phe		
									35			40		45			
	ttt	gta	gaa	aga	gac	caa	gtc	agc	gct	aag	tgg	aaa	act	tca	ctt	192	
Phe	Val	Glu	Arg	Asp	Gln	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Ieu	Ala		
									50			55		60			
	gta	tct	ggt	tta	att	act	ggt	ata	gct	ttt	tgg	cat	tat	ctc	tat	240	
Val	Ser	Gly	Leu	Ile	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Ieu	Tyr	Met		
									65			70		75			
	aga	ggt	ggt	tgg	ata	gac	act	ggt	gat	acc	cca	aca	gta	tcc	aga	288	
Arg	Gly	Val	Trp	Ile	Asp	Thr	Gly	Asp	Thr	Pro	Thr	Val	Phe	Arg	Tyr		
										85			90		95		
	att	gat	tgg	tta	tta	act	gtt	cca	tta	caa	atg	gtt	gag	ttc	tat	cta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Gln	Met	Val	Glu	Phe	Tyr	Ieu		
									100			105		110			

Figure 12-A

REPLACEMENT SHEETS

	att	ctt	gct	gct	tgt	aca	agt	gtt	gct	gct	tca	tta	ttt	aag	aag	ctt	384
Ile	Leu	Ala	Ala	Cys	Thr	Ser	Val	Ala	Ala	Ser	Ieu	Phe	Lys	Lys	Ieu		
115							120						125				
	cta	gct	ggc	tca	tta	gta	atg	tta	ggc	gga	ttt	gca	ggc	gaa	gct	432	
Leu	Ala	Gly	Ser	Ieu	Val	Met	Ieu	Gly	Ala	Gly	Phe	Ala	Gly	Glu	Ala		
130						135					140					480	
	gga	tta	gct	cct	gta	tta	cct	gct	ttc	att	att	ggc	atg	gct	gga	tgg	
Gly	Leu	Ala	Pro	Val	Leu	Pro	Ala	Phe	Ile	Ile	Gly	Met	Ala	Gly	Trp		
145						150					155					528	
	tta	tac	atg	att	tat	gag	cta	tat	atg	ggt	gaa	ggt	aag	gct	gct	tga	
Leu	Tyr	Met	Ile	Tyr	Glu	Leu	Tyr	Met	Gly	Glu	Gly	Lys	Ala	Ala	Val		
	165					170					175					576	
	agt	act	gca	agt	cct	gct	gtt	aac	tct	gca	tac	aac	gca	atg	atg		
Ser	Thr	Ala	Ser	Pro	Ala	Val	Asn	Ser	Ala	Tyr	Asn	Ala	Met	Met	Met		
	180					185					190					624	
	att	att	gtt	gtt	gga	tgg	gca	att	tat	cct	gct	gga	tat	gct	gct	ggt	
Ile	Ile	Val	Val	Gly	Trp	Ala	Ile	Tyr	Pro	Ala	Gly	Tyr	Ala	Ala	Gly		
	195					200					205					676	
	tac	cta	atg	ggt	ggc	gaa	ggt	gta	tac	gct	tca	aac	tta	aac	ctt	ata	
Tyr	Leu	Met	Gly	Gly	Glu	Gly	Val	Tyr	Ala	Ser	Asn	Ieu	Asn	Leu	Ile		
	210					215					220						

Figure 12-B

REPLACEMENT SHEETS

tat	aac	ctt	gcc	gac	ctt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Leu	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230					235						
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						753
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala						
245					250											240

Figure 12-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gct	att	gca	ctt	cca	tca	48
Met	Gly	Lys	Leu	Ile	Leu	Ile	Leu	Ile	Leu	Gly	Ser	Ala	Ile	Ala	Leu	Pro	15
1																	
	ttt	gct	gct	gct	ggt	ggt	ggc	gat	cta	gat	ata	agt	gat	act	gtt	ggt	96
Phe	Ala	Ala	Ala	Gly	Gly	Asp	Leu	Asp	Ile	Ser	Asp	Thr	Val	Gly	Val		
	20																
	tca	ttc	tgg	ctg	gtt	aca	gct	ggt	atg	tta	gcg	gca	act	gta	ttc	ttt	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Gly	Met	Leu	Ala	Ala	Thr	Val	Phe	Phe		
	35																
	ttt	gta	gaa	aga	gac	caa	gtc	agc	gct	aag	tgg	aaa	act	tca	ctt	act	192
Phe	Val	Glu	Arg	Asp	Gln	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
	50																
	gta	tct	ggt	tta	att	act	ggt	ata	gct	ttt	tgg	cat	tat	ctc	tac	atg	240
Val	Ser	Gly	Ieu	Ile	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Leu	Tyr	Met		
	65																
	aga	ggt	ggt	tgg	ata	gat	act	ggt	gat	aca	cca	aca	gta	ttt	aga	tat	288
Arg	Gly	Val	Trp	Ile	Asp	Thr	Gly	Asp	Thr	Pro	Thr	Val	Phe	Arg	Tyr		
	85																
	att	gat	tgg	tta	tta	act	gtt	cca	tta	caa	atg	gtt	gag	ttc	tat	cta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Gln	Met	Val	Glu	Phe	Tyr	Leu		
	100																
	105																
	110																

Figure 13-A

REPLACEMENT SHEETS

Figure 13-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230				235							240
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						753
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Asn						250
245																

Figure 13-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	att	gcc	ctt	cca	tca	48
Met	Gly	Lys	Ieu	Ieu	Ieu	Ile	Ieu	Ile	Ieu	Gly	Ser	Ala	Ile	Ala	Leu	Pro
1											10					15
	ttt	gct	gct	gct	ggt	ggc	gat	cta	gat	ata	agt	gat	act	gtt	ggt	96
Phe	Ala	Ala	Ala	Gly	Gly	Gly	Asp	Leu	Asp	Ile	Ser	Asp	Thr	Val	Gly	Val
	20															
	tca	ttc	tgg	ctg	gtt	aca	gct	ggt	atg	tta	gcg	gca	act	gtg	ttc	ttt
Ser	Phe	Trp	Leu	Val	Thr	Ala	Gly	Met	Leu	Ala	Ala	Thr	Val	Phe	Phe	144
	35															
	'	ttt	gta	gaa	aga	gac	caa	gtc	agc	gct	aag	tgg	aaa	act	tca	ctt
Phe	Val	Glu	Arg	Asp	Gln	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr	192
	50															
	gta	tct	ggc	tta	att	act	ggt	ata	gct	ttt	tgg	cat	tat	ctc	tat	atg
Val	Ser	Gly	Leu	Ile	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Ieu	Tyr	Met	240
	65															
	aga	ggc	ggc	ttt	ata	gac	act	ggt	gat	acc	cca	aca	gta	ttc	aga	tat
Arg	Gly	Val	Trp	Ile	Asp	Thr	Gly	Asp	Thr	Pro	Thr	Val	Phe	Arg	Tyr	288
	85															
	att	gat	tgg	tta	tta	act	gtt	cca	tta	caa	gtg	gtt	gag	ttc	tat	ctt
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Gln	Val	Val	Glu	Phe	Tyr	Leu	336
	100															
	105															

Figure 14-A

REPLACEMENT SHEETS

		att	ctt	gct	gct	tgt	aca	agt	gtt	gct	gct	tca	tta	ttt	aag	aag	ctt	384
Ile	Leu	Ala	Ala	Cys	Thr	Ser	Val	Ala	Ala	Ser	Leu	Phe	Lys	Lys	Leu			
115							120					125						
		cta	gct	ggc	tca	tta	gta	atg	tta	ggt	gct	gga	ttt	gca	ggc	gaa	gct	432
Leu	Ala	Gly	Ser	Leu	Val	Met	Leu	Gly	Ala	Gly	Phe	Ala	Gly	Glu	Ala			
130							135					140						
		gga	tta	gct	cct	gta	tta	cct	gct	ttc	att	att	ggt	atg	gct	gga	tgg	480
Gly	Leu	Ala	Pro	Val	Leu	Pro	Ala	Phe	Ile	Ile	Gly	Met	Ala	Gly		Trp		
145							150					155					160	
		tta	tac	atg	att	tat	gag	cta	tat	atg	ggt	gaa	ggt	aag	gct	gct	gta	528
Leu	Tyr	Met	Ile	Tyr	Tyr	Met	Glu	Ileu	Tyr	Met	Gly	Glu	Gly	Lys	Ala	Ala	Val	
							165					170					175	
		ttt	act	gca	agt	cct	gct	gtt	aac	tct	gca	tac	aac	gca	atg	atg	atg	576
Ser	Thr	Ala	Ser	Pro	Ala	Val	Asn	Ser	Ala	Tyr	Asn	Ala	Met	Met	Met	Met		
							180					185					190	
		att	att	gtt	gtt	gga	tgg	gca	att	tat	cct	gct	gga	tat	gct	gct	ggt	624
Ile	Ile	Val	Val	Gly	Trp	Ala	Ile	Tyr	Pro	Ala	Gly	Tyr	Ala	Ala	Gly			
195							200					205						
		tac	cta	atg	ggc	gaa	ggt	gta	tac	gct	tca	aac	tta	aac	ctt	ata		672
Tyr	Leu	Met	Gly	Gly	Glu	Gly	Val	Tyr	Ala	Ser	Asn	Leu	Asn	Leu	Ile			
210							215					220						

Figure 14-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230											235
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						240
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala						245
																250
																753

Figure 14-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gct	att	gca	ctt	cca	tca	48
Met	Gly	Lys	Leu	Leu	Leu	Ile	Leu	Ile	Leu	Gly	Ser	Ala	Ile	Ala	Leu	Pro	Ser
1											10					15	
	ttt	gct	gct	gct	ggt	ggc	gat	cta	gat	ata	agt	gat	act	gtt	ggt	gtt	96
Phe	Ala	Ala	Ala	Gly	Gly	Asp	Leu	Asp	Ile	Ser	Asp	Thr	Val	Gly	Val		
												25			30		
	tca	ttc	tgg	ctg	gtt	aca	gct	ggt	atg	tta	gcg	gca	act	gtg	ttc	ttt	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Gly	Met	Leu	Ala	Ala	Thr	Val	Phe	Phe		
												40			45		
	ttt	gta	gaa	aga	gac	caa	gtc	agc	gct	aag	tgg	aaa	act	tca	ctt	act	192
Phe	Val	Glu	Arg	Asp	Gln	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
											60						
	gta	tct	ggc	tta	att	act	ggt	ata	gct	ttt	tgg	cat	tat	ctc	tat	atg	240
Val	Ser	Gly	Ieu	Ile	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Leu	Tyr	Met		
											75				80		
	aga	ggc	ggc	ata	gac	act	ggt	gat	acc	cca	aca	gta	ttc	aga	tat		288
Arg	Gly	Val	Trp	Ile	Asp	Thr	Gly	Asp	Thr	Pro	Thr	Val	Phe	Arg	Tyr		
	att	gat	tgg	tta	tta	act	gtt	cca	caa	atg	gtt	gag	ttc	tat	cta		336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Gln	Met	Val	Glu	Phe	Tyr	Leu		
												105			110		

Figure 15-A

REPLACEMENT SHEETS

Figure 15-B

REPLACEMENT SHEETS

tat	aac	ctt	gcc	gac	ctt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Leu	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230						235					
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Asn						
245					250											

Figure 15-C

REPLACEMENT SHEETS

atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca		48
Met	Gly	Lys	Leu	Leu	Ile	Leu	Ile	Leu	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr	
1									5	10						15	
ttt	gct	gca	ggt	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt		96
Phe	Ala	Ala	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val		
									20	25						30	
tct	ttt	tgg	tta	gtt	act	gct	gct	cta	tta	gca	tct	act	gta	ttt	ttc		144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Ieu	Leu	Ala	Ser	Thr	Val	Phe	Phe		
									35	40						45	
ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act		192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
									50	55						60	
gtt	tct	ggg	ctt	gtt	act	gtt	att	gct	ttc	tgg	cat	tac	atg	tac	atg		240
Val	Ser	Gly	Leu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met		
									65	70						75	
aga	ggg	gtt	tgg	att	gag	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac		288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		
									85	90						95	
att	gat	tgg	tta	cta	aca	gtt	cct	cta	ttg	ata	tgt	gaa	ttc	tac	tta		336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Ieu	Ieu	Ile	Cys	Glu	Phe	Tyr	Leu		
									100	105						110	

Figure 16-A

REPLACEMENT SHEETS

att	ctt	gct	gct	gca	aca	aat	gtt	gct	ggc	ctg	ttt	aag	aaa	tta		384
Ile	Leu	Ala	Ala	Ala	Ala	Thr	Asn	Val	Ala	Ala	Gly	Leu	Phe	Lys	Lys	
115								120				125				
ttg	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gag	gca	
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala	
130						135					140					432
gga	att	atg	aac	gct	tgg	cct	gca	ttc	att	att	ggg	tgt	tta	gct	tgg	
Gly	Ile	Met	Met	Asn	Ala	Trp	Pro	Ala	Phe	Ile	Ile	Gly	Cys	Leu	Ala	Trp
145						150					155					480
gta	tac	atg	att	tat	gaa	cta	tat	gct	gga	gaa	gga	aaa	tct	gca	tgt	
Val	Tyr	Met	Ile	Tyr	Glu	Leu	Tyr	Ala	Gly	Glu	Gly	Lys	Ser	Ala	Cys	
165								170					175			528
aat	act	gca	agt	cct	tcg	gtt	caa	tca	gct	tac	aac	aca	atg	atg	gct	
Asn	Thr	Ala	Ser	Pro	Ser	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Ala	
180								185					190			576
atc	ata	gtc	tcc	ttc	tgg	gca	att	tat	cct	gta	ggt	tat	tcc	aca	ggt	
Ile	Ile	Val	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly	
195								200					205			624
tac	cta	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	att	tat	
Tyr	Leu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Leu	Asn	Leu	Ile	Tyr	
210								215					220			672

Figure 16-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	tta	att	ata	tgg	720
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	Trp	
225					230										240	
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct							750
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245																

Figure 16-C

REPLACEMENT SHEETS

atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Leu	Ile	Leu	Ile	Leu	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr
1										10						15
ttt	gct	gca	ggt	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggg	gtt	96
Phe	Ala	Ala	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val	
20																30
tct	ttt	tgg	tta	gtt	act	gct	gct	tta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	
35																45
ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr	
50																60
gtt	tct	ggt	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240
Val	Ser	Gly	Ieu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met	
65																80
aga	ggg	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr	
																85
att	gat	tgg	tta	cta	aca	gtt	cct	cta	tta	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu	
100																110

Figure 17-A

REPLACEMENT SHEETS

Figure 17-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	tta	att	ata	tgg	720
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Ieu	Ile	Ile	Trp	
225					230						235					
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct							
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245										250						
																750

Figure 17-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	ggt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Leu	Ile	Ile	Ile	Ile	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr	
1										10						15	
	ttt	gct	gca	ggt	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	ggt	96
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val	
	20									25					30		
	tct	ttt	tgg	tta	gtt	act	gct	gct	tta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Val	Thr	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	
	35											40			45		
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
	50										55				60		
	gtt	tct	ggt	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240
Val	Ser	Gly	Ile	Val	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met	
	65										70				75		
	aga	ggg	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		
											85				90		
	att	gat	tgg	tta	cta	aca	gtt	cct	cta	tta	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu		
	100										105				110		

Figure 18-A

REPLACEMENT SHEETS

att	ctt	gct	gct	gca	act	aat	gtt	gct	ggc	ctg	ttt	aag	aaa	tta	384
Ile	Ile	Ala	Ala	Ala	Thr	Asn	Val	Ala	Ala	Gly	Leu	Phe	Lys	Leu	
115							120					125			
ttg	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gag	gca
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala
130						135					140				432
gga	att	atg	aac	gct	tgg	ggt	gca	ttc	gtt	att	ggg	tgt	tta	gct	tg
Gly	Ile	Met	Asn	Ala	Trp	Gly	Ala	Phe	Val	Ile	Gly	Cys	Leu	Ala	Trp
145					150					155					480
gta	tac	atg	att	tat	gaa	cta	tgg	gct	gga	gaa	ggc	aag	gct	gca	tg
Val	Tyr	Met	Ile	Tyr	Glu	Leu	Trp	Ala	Gly	Glu	Gly	Lys	Ala	Ala	Cys
					165				170				175		528
aat	act	gca	agt	cct	gct	gtg	caa	tca	gt	tac	aac	aca	atg	atg	tat
Asn	Thr	Ala	Ser	Pro	Ala	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Tyr
					180				185				190		576
ata	atc	atc	ttt	ggt	tgg	gca	att	tat	cct	gta	ggt	tat	ttc	aca	ggt
Ile	Ile	Ile	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly
					195				200			205			624
tac	cta	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	atc	tat
Tyr	Leu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Leu	Asn	Leu	Ile	Tyr
					210				215			220			672

Figure 18-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	tta	att	ata	tgg	720
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Ile	Phe	Gly	Leu	Ile	Ile	Trp	
225					230					235					240	
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct							750
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245										250						

Figure 18-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Ile	Leu	Ile	Leu	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr		
1																15	
	ttt	gct	gca	ggc	ggc	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt	96
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val	
																30	
	tct	ttt	tgg	tta	gtt	aca	gct	gct	cta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	
																45	
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
																60	
	gta	tct	ggt	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240
Val	Ser	Gly	Ile	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met		
																80	
	aga	ggg	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		
																95	
	att	gat	tgg	tta	cta	aca	gtt	cct	cta	tta	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu		
																110	
	100																

Figure 19-A

REPLACEMENT SHEETS

Figure 19-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ctt	ggt	tta	att	ata	tgg	720
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Leu	Gly	Leu	Ile	Ile	Trp	
225					230											
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct							
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245										250						
																750

Figure 19-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Leu	Leu	Ile	Leu	Ile	Leu	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr
1											5						15
	ttt	gct	gca	ggt	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt	96
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val	
										20		25		30			
	tct	ttt	tgg	tta	gtt	act	gct	gct	tta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	
											35		40		45		
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
											50		55		60		
	gta	tct	ggg	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240
Val	Ser	Gly	Ieu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met		
											65		70		75		80
	aga	ggg	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		
											85		90		95		
	att	gat	tgg	tta	cta	aca	gtt	cct	cta	tta	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu		
											100		105		110		

Figure 20-A

REPLACEMENT SHEETS

Figure 20-B

REPLACEMENT SHEETS

Figure 20-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	ata	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Ieu	Ieu	Ieu	Ile	Ile	Ile	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr	
1																	15
	ttt	gct	gca	ggc	ggc	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt	96
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val	
	tct	ttt	tgg	tta	gtt	aca	gct	gct	cta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
	gta	tct	ggc	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240
Val	Ser	Gly	Leu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met		
	aga	gga	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		
	att	gat	tgg	tta	cta	aca	gtt	cct	tta	ata	tgt	gaa	ttc	tac	tta		336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu		
	100																
	105																
	110																

Figure 21-A

REPLACEMENT SHEETS

att	ctt	gct	gct	gca	act	aat	gtt	gcc	ggc	tca	tta	ttt	aag	aaa	ctt	384
Ile	Ieu	Ala	Ala	Ala	Thr	Asn	Val	Ala	Gly	Ser	Ieu	Phe	Lys	Lys	Ieu	
115							120					125				
cta	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gaa	gca	432
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala	
130						135					140					
gga	att	atg	gca	gct	tgg	cct	gca	ttc	att	att	ggg	tgt	tta	gct	tgg	480
Gly	Ile	Met	Ala	Ala	Trp	Pro	Ala	Phe	Ile	Ile	Gly	Cys	Leu	Ala	Trp	
145						150					155					
gta	tat	atg	att	tat	gaa	cta	tat	gct	gga	gaa	gga	aaa	tct	gca	tgt	528
Val	Tyr	Met	Ile	Tyr	Glu	Leu	Tyr	Ala	Gly	Glu	Gly	Lys	Ser	Ala	Cys	
									170					175		
aat	aca	gca	agt	cct	gct	gtg	caa	tca	gct	tac	aac	aca	atg	atg	tat	576
Asn	Thr	Ala	Ser	Pro	Ala	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Tyr	
									180		185		190			
att	atc	gtc	ttt	ggt	tgg	gct	att	tat	cct	gta	ggt	tat	ttc	aca	ggt	624
Ile	Ile	Val	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly	
195						200					205					
tac	ctg	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	atc	tat	672
Tyr	Ieu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Ieu	Asn	Leu	Ile	Tyr	
210						215					220					

Figure 21-B

REPLACEMENT SHEETS

Figure 21-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Leu	Leu	Ile	Ile	Ile	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr	15
1																	10
	ttt	gct	gca	ggg	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggg	gtt	96
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val	20
																	25
	tct	ttt	tgg	tta	gtt	act	gct	gct	cta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	35
																	40
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		50
																	55
	gta	tcg	ggg	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240
Val	Ser	Gly	Ile	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met		65
																	70
	aga	ggg	gta	tgg	att	gag	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		85
																	90
	att	gat	tgg	tta	ctt	aca	gtt	cct	cta	ttg	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu		100
																	105
																	110

Figure 22-A

REPLACEMENT SHEETS

att	ctt	gct	gct	gca	aca	aat	gtt	gct	gct	ggc	ctg	ttt	aag	aaa	tta	384
Ile	Leu	Ala	Ala	Ala	Ala	Thr	Asn	Val	Ala	Ala	Gly	Leu	Phe	Lys	Lys	Leu
115								120				125				
ttg	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gag	gca	432
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala	
130						135					140					
gga	att	atg	aac	gct	tgg	ggt	gca	ttc	gtt	att	ggg	tgt	tta	gct	tgg	480
Gly	Ile	Met	Asn	Ala	Trp	Gly	Ala	Phe	Val	Ile	Gly	Cys	Leu	Ala	Trp	
145						150				155						160
gta	tac	atg	att	tat	gaa	cta	tgg	gct	gga	gaa	ggc	aag	gct	gca	tgt	528
Val	Tyr	Met	Ile	Tyr	Glu	Ieu	Trp	Ala	Gly	Glu	Gly	Lys	Ala	Ala	Cys	
									170							175
aat	act	gca	agt	cct	gct	gtg	caa	tca	gct	tac	aac	aca	atg	atg	tat	576
Asn	Thr	Ala	Ser	Pro	Ala	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Tyr	
						180			185							190
ata	atc	atc	ttt	ggt	tgg	gca	att	tat	cct	gta	ggt	tat	ttc	aca	ggt	624
Ile	Ile	Ile	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly	
195						200					205					
tac	cta	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	atc	tat	672
Tyr	Leu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Ieu	Asn	Leu	Ile	Tyr	
210						215					220					

Figure 22-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	aat	cta	ttt	ggt	tta	att	ata	tgg	720
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Asn	Leu	Phe	Gly	Leu	Ile	Ile	Trp	
225					230											
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct							
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245																
																750
																240
																235
																250

Figure 22-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	cgg	ata	tta	ggt	agt	ggt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Ieu	Ieu	Arg	Ile	Ieu	Gly	Ser	Val	Ile	Ala	Ieu	Pro	Thr		
1																15	
	ttt	gct	gca	ggc	ggc	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	ggt	96
Phe	Ala	Ala	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val		
																30	
	tct	ttt	tgg	tta	gtt	aca	gct	gct	cta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe		
																45	
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Ieu	Thr		
																60	
	gta	tct	ggt	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tat	atg	240
Val	Ser	Gly	Leu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met		
																80	
	65																
	aga	gga	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		
																95	
	att	gat	tgg	tta	cta	aca	gtt	cct	tta	tta	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Ieu		
																105	
																110	

Figure 23-A

REPLACEMENT SHEETS

Figure 23-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	gtt	tta	att	ata	tgg	720
Asn	Ile	Ala	Asp	Phe	Val	Asn	Lys	Ile	Ile	Phe	Gly	Leu	Ile	Ile	Trp	
225					230					235						
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gtt							
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245										250						
																750

Figure 23-C

REPLACEMENT SHEETS

atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Leu	Ile	Ile	Ile	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr	
1																15
ttt	gct	gca	ggc	ggc	ggt	gac	ctt	gat	gct	agt	gtt	tac	act	ggt	gtt	96
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val
20																30
tct	ttt	tgg	tta	gtt	aca	gct	gct	cta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	
35																45
ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr	
50																60
gtt	tct	ggc	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240
Val	Ser	Gly	Leu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met	
65																80
aga	gga	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr	
																85
att	gat	tgg	tta	cta	aca	gtt	cct	tta	tta	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu	
100																105
																110

Figure 24-A

REPLACEMENT SHEETS

	att	ctt	gct	gct	gca	act	aat	gtt	gcc	ggc	tca	tta	ttt	aag	aaa	ctt	384
Ile	Leu	Ala	Ala	Ala	Thr	Asn	Val	Ala	Gly	Ser	Leu	Phe	Lys	Lys	Leu		
115								120								125	
	cta	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gaa	gca	432
Leu	Val	Gly	Ser	Leu	Val	Met	Ieu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala		
130						135					140					160	
	gga	att	atg	gca	gct	tgg	cct	gca	ttc	att	att	ggg	tgt	tta	gct	tgg	480
Gly	Ile	Met	Ala	Ala	Trp	Pro	Ala	Phe	Ile	Ile	Gly	Cys	Leu	Ala	Trp		
145						150					155					175	
	gta	tac	atg	att	tat	gaa	cta	tat	gct	gga	gaa	gga	aaa	tct	gca	tgt	528
Val	Tyr	Met	Ile	Tyr	Tyr	Glu	Ieu	Tyr	Ala	Gly	Glu	Gly	Lys	Ser	Ala	Cys	
	165					170					175					190	
	aat	act	gca	agt	cct	tcg	gtt	caa	tca	gct	tac	aac	aca	atg	atg	gct	576
Asn	Thr	Ala	Ser	Pro	Ser	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Ala		
	180					185										220	
	atc	ata	gtc	ttc	ggt	tgg	gca	att	tat	cct	gta	ggt	tat	ttc	aca	ggt	624
Ile	Ile	Val	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly		
	195					200					205					672	
	tac	cta	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	att	tat	
Tyr	Leu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Ieu	Asn	Ieu	Ile	Tyr		
210					215						220						

Figure 24-B

REPLACEMENT SHEETS

Figure 24-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Ieu	Ieu	Ieu	Ile	Ieu	Ile	Ieu	Gly	Ser	Val	Ile	Ala	Ieu	Pro	Thr
1											5					15	
	ttt	gct	gca	ggc	ggc	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val
									20		25			30			96
	tct	ttt	tgg	tta	gtt	act	gct	gct	tta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe		
									35		40			45			
	ttt	gtt	gaa	aga	gat	aga	ggt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
									50		55			60			
	gta	tct	ggc	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tac	atg	240
Val	Ser	Gly	Leu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met		
									65		70			75			
	aga	ggg	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		
									85		90			95			
	att	gat	tgg	tta	cta	aca	gtt	cct	cta	tta	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu		
									100		105			110			

Figure 25-A

REPLACEMENT SHEETS

att	ctt	gct	gct	gct	act	aat	gtt	gcc	ggc	tca	tta	ttt	aag	aaa	ctt	384
Ile	Ieu	Ala	Ala	Ala	Ala	Thr	Asn	Val	Ala	Gly	Ser	Leu	Phe	Lys	Lys	Ieu
115								120					125			
cta	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gaa	gca	432
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala	
130						135					140					
gga	att	atg	gca	gct	tgg	cct	gca	ttc	att	att	ggg	tgt	tta	gct	tgg	480
Gly	Ile	Met	Ala	Ala	Trp	Pro	Ala	Phe	Ile	Ile	Gly	Cys	Leu	Ala	Trp	
145					150				155						160	
gta	tac	atg	att	tat	gaa	cta	tat	gct	gga	gaa	gga	aaa	tct	gca	tgt	528
Val	Tyr	Met	Ile	Tyr	Glu	Leu	Tyr	Ala	Gly	Glu	Gly	Lys	Ser	Ala	Cys	
					165			170					175			
aat	act	gca	agt	cct	tcg	gtt	caa	tca	gct	tac	aac	aca	atg	atg	gct	576
Asn	Thr	Ala	Ser	Pro	Ser	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Ala	
					180			185					190			
atc	ata	gtc	ttc	ggc	tgg	gca	att	tat	cct	gta	ggt	tat	ttc	aca	ggt	624
Ile	Ile	Val	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly	
195					200						205					
tac	cta	atg	ggt	gac	ggt	gga	tca	gct	ctt	aac	tta	aac	ctt	att	tat	672
Tyr	Ieu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Ieu	Asn	Leu	Ile	Tyr	
210					215					220						

Figure 25-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	gtt	tta	att	ata	tgg	720	
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Ile	Phe	Gly	Leu	Ile	Ile	Trp		
225					230					235					240		
aat	gct	gct	gtt	aaa	gaa	tct	tct	aat	gct								
Asn	Ala	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala								
245										250							
																750	

Figure 25-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Ieu	Ieu	Ieu	Ile	Ieu	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr	
1					5					10						15	
	ttt	gct	gca	ggt	ggt	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggt	gtt	96
Phe	Ala	Ala	Gly	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val	
					20					25				30			
	tct	ttt	tgg	tta	gtt	act	gct	gct	tta	tta	gca	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	
					35					40			45				
	ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
					50					55			60				
	gta	tct	ggt	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tat	atg	240
Val	Ser	Gly	Ieu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met		
					65					70			75			80	
	aga	ggg	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr		
					85					90				95			
	ata	gat	tgg	tta	cta	aca	gtt	cct	tta	tta	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu		
					100					105			110				

Figure 26-A

REPLACEMENT SHEETS

	att	ctt	gcc	gct	gca	act	aat	gtt	gct	gga	tca	tta	ttt	aag	aaa	tta	384
Ile	Leu	Ala	Ala	Ala	Thr	Asn	Val	Ala	Gly	Ser	Leu	Phe	Lys	Lys	Leu		
115								120					125				
	ctt	gtt	ggt	tct	ctt	gtt	atg	ctt	gtg	ttt	ggt	tac	atg	ggt	gaa	gca	432
Leu	Val	Gly	Ser	Leu	Val	Met	Leu	Val	Phe	Gly	Tyr	Met	Gly	Glu	Ala		
130						135					140					480	
	gga	atc	atg	gct	gca	tgg	cct	gca	ttc	att	att	ggg	tgt	tta	gct	tgg	
Gly	Ile	Met	Ala	Ala	Trp	Pro	Ala	Phe	Ile	Ile	Gly	Cys	Leu	Ala	Trp		
145					150					155					160		
	gta	tac	atg	att	tat	gaa	cta	tgg	gct	gga	gaa	gga	aaa	tct	gca	tgt	528
Val	Tyr	Met	Ile	Tyr	Glu	Leu	Trp	Ala	Gly	Glu	Gly	Lys	Ser	Ala	Cys		
					165				170					175			
	aat	act	gca	agt	cct	gct	gtg	caa	tca	gct	tac	aac	aca	atg	atg	tat	576
Asn	Thr	Ala	Ser	Pro	Ala	Val	Gln	Ser	Ala	Tyr	Asn	Thr	Met	Met	Tyr		
					180				185				190				
	atc	atc	atc	ttt	ggt	tgg	gcg	att	tat	cct	gta	ggt	tat	ttc	aca	ggt	624
Ile	Ile	Ile	Phe	Gly	Trp	Ala	Ile	Tyr	Pro	Val	Gly	Tyr	Phe	Thr	Gly		
					195				200			205					
	tac	ctt	atg	ggt	gac	ggt	gga	tca	gca	ctt	aac	tta	aac	ctt	att	tat	672
Tyr	Leu	Met	Gly	Asp	Gly	Gly	Ser	Ala	Leu	Asn	Leu	Asn	Leu	Ile	Tyr		
					215					220							

Figure 26-B

REPLACEMENT SHEETS

Figure 26-C

REPLACEMENT SHEETS

atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gtt	att	gca	ctt	cct	aca	48
Met	Gly	Lys	Leu	Leu	Leu	Ile	Leu	Gly	Ser	Val	Ile	Ala	Leu	Pro	Thr	
1		5							10						15	
ttt	gct	gca	ggt	ggc	ggt	gac	ctt	gat	gct	agt	gat	tac	act	ggg	gtt	96
Phe	Ala	Ala	Gly	Gly	Gly	Asp	Leu	Asp	Ala	Ser	Asp	Tyr	Thr	Gly	Val	
		20							25			30				
tct	ttt	tgg	tta	gtt	aca	gct	gct	cta	tta	gcg	tct	act	gta	ttt	ttc	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Ala	Leu	Leu	Ala	Ser	Thr	Val	Phe	Phe	
		35							40			45				
ttt	gtt	gaa	aga	gat	aga	gtt	tct	gca	aaa	tgg	aaa	aca	tca	tta	act	192
Phe	Val	Glu	Arg	Asp	Arg	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr	
		50				55					60					
gta	tct	ggt	ctt	gtt	act	ggt	att	gct	ttc	tgg	cat	tac	atg	tat	atg	240
Val	Ser	Gly	Ieu	Val	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Met	Tyr	Met	
		65				70					75			80		
aga	gga	gta	tgg	att	gaa	act	ggt	gat	tcg	cca	act	gta	ttt	aga	tac	288
Arg	Gly	Val	Trp	Ile	Glu	Thr	Gly	Asp	Ser	Pro	Thr	Val	Phe	Arg	Tyr	
				85					90			95				
att	gat	tgg	tta	cta	aca	gtt	cct	tta	tta	ata	tgt	gaa	ttc	tac	tta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Leu	Ile	Cys	Glu	Phe	Tyr	Leu	
		100				105					110					

Figure 27-A

REPLACEMENT SHEETS

Figure 27-B

REPLACEMENT SHEETS

aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	tta	att	ata	tgg	720
Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	Trp	
225					230					235					240	
aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct							750
Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala							
245										250						

Figure 27-C

REPLACEMENT SHEETS

Figure 28-A

REPLACEMENT SHEETS

Figure 28-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230				235							
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						753
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala						
245					250											

Figure 28-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gct	att	gca	ctt	cca	tca	48
Met	Gly	Lys	Leu	Ieu	Ieu	Ieu	Ieu	Ieu	Ieu	Ser	Ala	Ile	Ala	Ile	Leu	Pro	15
1																	
	ttt	gct	gct	gct	ggt	ggc	gat	cta	gat	ata	agt	gat	act	gtt	ggt	gtt	96
Phe	Ala	Ala	Ala	Gly	Gly	Gly	Asp	Leu	Asp	Ile	Ser	Asp	Thr	Val	Gly	Val	
	tca	ttc	tgg	ctg	gtt	aca	gct	ggt	atg	tta	gcg	gca	act	gtg	ttc	ttt	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Gly	Met	Leu	Ala	Ala	Thr	Val	Phe	Phe		
	ttt	gta	gaa	aga	gac	caa	gtc	agc	gct	gag	tgg	aaa	act	tca	ctt	act	192
Phe	Val	Glu	Arg	Asp	Gln	Val	Ser	Ala	Glu	Trp	Lys	Thr	Ser	Leu	Thr		
	ttt	tct	ggt	tta	att	act	ggt	ata	gct	ttt	tgg	cat	tat	ctc	tat	atg	240
Val	Ser	Gly	Ieu	Ile	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Leu	Tyr	Met		
	aga	ggt	gtt	tgg	ata	gat	act	ggt	gat	acc	cca	aca	gta	ttc	aga	tat	288
Arg	Gly	Val	Trp	Ile	Asp	Thr	Gly	Asp	Thr	Pro	Thr	Val	Phe	Arg	Tyr		
	att	gat	tgg	tta	tta	act	gtt	cca	tta	caa	atg	gtt	gag	ttc	tat	cta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Gln	Met	Val	Glu	Phe	Tyr	Leu		
	100																
	105																
	110																

Figure 29-A

REPLACEMENT SHEETS

		att	ctt	gct	gct	tgt	aca	agt	gtt	gct	gct	tca	tta	ttt	aag	aag	ctt	384
Ile	Ile	Ala	Ala	Cys	Thr	Ser	Val	Ala	Ala	Ser	Ieu	Phe	Lys	Lys				
115							120								125			
		cta	gct	ggc	tca	tta	gta	atg	tta	ggt	gct	gga	ttt	gca	ggc	gaa	gct	432
Leu	Ala	Gly	Ser	Ieu	Val	Met	Leu	Gly	Ala	Gly	Phe	Ala	Gly	Glu	Ala			
130						135						140						
		gga	tta	gct	cct	gta	tta	cct	gct	ttc	att	att	ggt	atg	gct	gga	tgg	480
Gly	Leu	Ala	Pro	Val	Leu	Pro	Ala	Phe	Ile	Ile	Gly	Met	Ala	Gly		Trp		
145						150						155					160	
		tta	tac	atg	att	tat	gag	cta	tat	atg	ggt	gaa	ggt	aag	gct	gct	gta	528
Leu	Tyr	Met	Ile	Tyr	Glu	Leu	Tyr	Met	Gly	Glu	Gly	Glu	Gly	Lys	Ala	Ala	Val	
						165						170					175	
		tgt	act	gca	agt	cct	gct	gtt	aac	tct	gca	tac	aac	gca	atg	atg	atg	576
Ser	Thr	Ala	Ser	Pro	Ala	Val	Asn	Ser	Ala	Tyr	Asn	Ala	Met	Met	Met	Met		
						180					185				190			
		att	att	gtt	gtt	gga	tgg	gca	att	tat	cct	gct	gga	tat	gct	gct	ggt	624
Ile	Ile	Val	Val	Gly	Trp	Ala	Ile	Tyr	Pro	Ala	Gly	Tyr	Ala	Ala	Gly			
195						200						205						
		tac	cta	atg	ggt	ggc	gaa	ggt	gta	tac	gct	tca	aac	tta	aac	ctt	ata	672
Tyr	Leu	Met	Gly	Gly	Glu	Gly	Val	Tyr	Ala	Ser	Asn	Ieu	Asn	Leu	Ile			
210						215						220						

Figure 29-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230						235					
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala						
245					250											

Figure 29-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gct	att	gca	ctt	cca	tca	48
Met	Gly	Lys	Leu	Leu	Ile	Leu	Ile	Leu	Gly	Ser	Ala	Ile	Ala	Leu	Pro	Ser	15
1										10							
	ttt	gct	gct	gct	ggt	ggc	gat	cta	gat	ata	agt	gat	act	gtt	ggt	gtt	96
Phe	Ala	Ala	Ala	Gly	Gly	Asp	Leu	Asp	Ile	Ser	Asp	Thr	Val	Gly	Val		
	20																
	tca	ttc	tgg	ctg	gtt	aca	gct	ggt	atg	tta	gcg	gca	act	gtg	ttc	ttt	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Gly	Met	Leu	Ala	Ala	Thr	Val	Phe	Phe		
	35																
	ttt	gta	gaa	aga	gac	caa	gtc	agc	gct	aag	tgg	aaa	act	tca	ctt	act	192
Phe	Val	Glu	Arg	Asp	Gln	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
	50																
	gta	tct	ggc	tta	att	act	ggt	ata	gcc	ttt	tgg	cat	tat	ctc	tat	atg	240
Val	Ser	Gly	Ieu	Ile	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Leu	Tyr	Met		
	65																
	aga	ggc	ggc	gtt	ata	gac	act	ggt	gat	acc	ccg	aca	gtg	tcc	aga	tat	288
Arg	Gly	Val	Trp	Ile	Asp	Thr	Gly	Asp	Thr	Pro	Thr	Val	Phe	Arg	Tyr		
	85																
	att	gat	tgg	tta	tta	act	gtt	cca	tta	caa	atg	gtt	gag	ttc	tat	cta	336
Ile	Asp	Trp	Ieu	Ieu	Thr	Val	Pro	Leu	Gln	Met	Val	Glu	Phe	Tyr	Leu		
	100																
	105																

Figure 30-A

REPLACEMENT SHEETS

att	ctt	gct	gct	tgt	aca	aat	gtt	gct	gct	tca	tta	ttt	aag	aag	ctt	384
Ile	Ile	Leu	Ala	Ala	Cys	Thr	Asn	Val	Ala	Ala	Ser	Ile	Phe	Lys	Leu	
115								120					125			
cta	gct	ggt	tca	tta	gta	atg	tta	ggt	gct	gga	ttt	gca	ggc	gaa	gct	432
Leu	Ala	Gly	Ser	Leu	Val	Met	Leu	Gly	Ala	Gly	Phe	Ala	Gly	Glu	Ala	
130						135					140					
gga	tta	gct	cct	gta	tgg	cct	gct	ttc	att	att	ggt	atg	gct	gga	tgg	480
Gly	Leu	Ala	Pro	Val	Trp	Pro	Ala	Phe	Ile	Ile	Gly	Met	Ala	Gly	Trp	
145						150					155					
tta	tac	atg	att	tat	gag	cta	tat	atg	ggt	gaa	ggt	aag	gct	gct	gta	528
Leu	Tyr	Met	Ile	Tyr	Glu	Leu	Tyr	Met	Gly	Glu	Gly	Lys	Ala	Ala	Val	
						165			170			175				
agt	act	gca	agt	cct	gct	gtt	aac	tct	gca	tac	aac	gca	atg	atg	atg	576
Ser	Thr	Ala	Ser	Pro	Ala	Val	Asn	Ser	Ala	Tyr	Asn	Ala	Met	Met	Met	
						180			185			190				
att	att	gtt	gtt	gga	tgg	gca	att	tat	cct	gct	gga	tat	gct	gct	ggg	624
Ile	Ile	Val	Val	Gly	Trp	Ala	Ile	Tyr	Pro	Ala	Gly	Tyr	Ala	Ala	Gly	
195						200					205					
tac	cta	atg	ggg	ggc	gaa	ggg	gta	tac	gct	tca	aac	ctt	ata			672
Tyr	Leu	Met	Gly	Gly	Glu	Gly	Val	Tyr	Ala	Ser	Asn	Leu	Asn	Leu	Ile	
210						215					220					

Figure 30-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230						235					240
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						753
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala						
245					250											

Figure 30-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gct	att	gcg	ctt	cca	tca	48
Met	Gly	Lys	Leu	Leu	Ile	Ile	Ile	Gly	Ser	Ala	Ile	Ala	Ile	Leu	Pro	Ser	15
1																	1
	ttt	gct	gct	gct	ggt	ggc	gat	cta	gat	ata	agt	gat	act	gtt	ggt	gtt	96
Phe	Ala	Ala	Ala	Gly	Gly	Asp	Leu	Asp	Ile	Ser	Asp	Thr	Val	Gly	Val		
	20																20
	tca	ttc	tgg	ctg	gtt	acg	gct	ggt	atg	tta	gcg	gca	act	gta	ttc	ttt	144
Ser	Phe	Trp	Leu	Val	Val	Thr	Ala	Gly	Met	Leu	Ala	Ala	Thr	Val	Phe	Phe	
	35																35
	ttt	gta	gaa	aga	gac	caa	gtc	agc	gct	aag	tgg	aaa	act	tca	ctt	act	192
Phe	Val	Glu	Arg	Asp	Gln	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
	50																50
	gta	tct	ggt	tta	att	act	ggt	ata	gct	ttt	tgg	cat	tat	ctc	tac	atg	240
Val	Ser	Gly	Ile	Ile	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Leu	Tyr	Met		
	65																65
	aga	ggc	gtt	tgg	ata	gat	act	ggt	gat	aca	cca	aca	gta	ttt	aga	tat	288
Arg	Gly	Val	Trp	Ile	Asp	Thr	Gly	Asp	Thr	Pro	Thr	Val	Phe	Arg	Tyr		
																	85
																	85
	att	gat	tgg	tta	tta	act	gtt	cca	tta	caa	atg	gtt	gag	ttc	tat	cta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Gln	Met	Val	Glu	Phe	Tyr	Leu		
	100																100
																	105
																	105
																	110
																	110

Figure 31-A

REPLACEMENT SHEETS

Figure 31-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230						235					240
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						753
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala						
245					250											

Figure 31-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gct	att	gca	ctt	cca	tca	48
Met	Gly	Lys	Ieu	Ieu	Ieu	Ieu	Ile	Ieu	Ile	Ser	Ala	Ile	Ala	Ieu	Pro	Ser	
1										10						15	
	ttt	gct	gct	gct	ggt	ggc	gat	cta	gat	ata	agt	gat	act	gtt	ggt	gtt	96
Phe	Ala	Ala	Ala	Gly	Gly	Asp	Leu	Asp	Ile	Ser	Asp	Thr	Val	Gly	Val		
										20						30	
	tca	ttc	tgg	ctg	gtt	aca	gct	ggt	atg	tta	gcg	gca	act	gtg	ttc	ttt	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Gly	Met	Leu	Ala	Ala	Thr	Val	Phe	Phe		
										35						45	
	ttt	gta	gaa	aga	gac	caa	gtc	agc	gct	aag	tgg	aaa	act	tca	ctt	act	192
Phe	Val	Glu	Arg	Asp	Gln	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
										50						60	
	gta	tct	ggt	tta	att	act	ggt	ata	gct	ttt	tgg	cat	tat	ctc	tat	atg	240
Val	Ser	Gly	Leu	Ile	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Leu	Tyr	Met		
										65						75	
	aga	ggt	ggt	tgg	ata	gac	act	ggt	gat	acc	cca	aca	gta	ttc	aga	tat	288
Arg	Gly	Val	Trp	Ile	Asp	Thr	Gly	Asp	Thr	Pro	Thr	Val	Phe	Arg	Tyr		
										85						90	
	att	gat	tgg	tta	tta	act	gtt	cca	tta	caa	atg	gtt	gag	ttc	tat	cta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Gln	Met	Val	Glu	Phe	Tyr	Leu		
										100						105	
																110	

Figure 32-A

REPLACEMENT SHEETS

	att	ctt	gct	gct	tgt	aca	aat	gtt	gct	tca	tta	ttt	aag	aag	ctt	384	
Ile	Leu	Ala	Ala	Cys	Thr	Asn	Val	Ala	Ala	Ser	Leu	Phe	Lys	Lys	Leu		
115								120				125					
	cta	gct	ggc	tca	tta	gta	atg	tta	ggt	gct	gga	ttt	gca	ggc	gaa	gct	432
Leu	Ala	Gly	Ser	Leu	Val	Met	Leu	Gly	Ala	Gly	Phe	Ala	Gly	Glu	Ala		
130							135					140				480	
	gga	tta	gct	cct	gta	tgg	cct	gct	ttc	att	att	ggt	atg	gct	gga	tgg	
Gly	Leu	Ala	Pro	Val	Trp	Pro	Ala	Phe	Ile	Ile	Gly	Met	Ala	Gly	Trp		
145							150					155				160	
	tta	tac	atg	att	tat	gag	cta	tat	atg	ggt	gaa	ggt	aag	gct	gct	528	
Leu	Tyr	Met	Ile	Tyr	Glu	Leu	Tyr	Met	Gly	Glu	Gly	Lys	Ala	Ala	Val		
	165						170					175					
	att	act	gca	agt	cct	gct	gtt	aac	tct	gca	tac	aac	gca	atg	atg	576	
Ser	Thr	Ala	Ser	Pro	Ala	Val	Asn	Ser	Ala	Tyr	Asn	Ala	Met	Met	Val		
	180						185					190					
	att	att	gtt	gtt	gga	tgg	gca	att	tat	cct	gct	gga	tat	gct	gct	ggt	624
Ile	Ile	Val	Val	Gly	Trp	Ala	Ile	Tyr	Pro	Ala	Gly	Tyr	Ala	Ala	Gly		
	195						200					205					
	tac	cta	atg	ggt	ggc	gaa	ggt	gta	tac	gct	tca	aac	ctt	aac	ctt	ata	672
Tyr	Ile	Met	Gly	Gly	Glu	Gly	Val	Tyr	Ala	Ser	Asn	Ieu	Asn	Ieu	Ile		
	210						215					220					

Figure 32-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230							235				
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						753
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala						
245					250											

Figure 32-C

REPLACEMENT SHEETS

Figure 33-A

REPLACEMENT SHEETS

Figure 33-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ctt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Leu	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230						235					
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						753
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala						
245					250						240					

Figure 33-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	gct	att	gca	ctt	cca	tca	48
Met	Gly	Lys	Leu	Leu	Leu	Ile	Leu	Ile	Leu	Gly	Ser	Ala	Ile	Ala	Leu	Pro	Ser
1											10						15
	ttt	gct	gct	gct	ggt	ggc	gat	cta	gat	ata	agt	gat	act	gtt	ggt	gtt	96
Phe	Ala	Ala	Ala	Gly	Gly	Asp	Leu	Asp	Ile	Ser	Asp	Thr	Val	Gly	Val		
											25					30	
	tca	ttc	tgg	ctg	gtt	aca	gct	ggt	atg	tta	gcg	gca	act	gtg	ttc	ttt	144
Ser	Phe	Trp	Leu	Val	Thr	Ala	Gly	Met	Leu	Ala	Ala	Thr	Val	Phe	Phe		
											40					45	
	ttt	gta	gaa	aga	gac	caa	gtc	agc	gct	aag	tgg	aaa	act	tca	ctt	act	192
Phe	Val	Glu	Arg	Asp	Gln	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr		
											55					60	
	gta	tct	ggt	tta	att	act	ggt	ata	gct	ttt	tgg	cat	tat	ctc	tat	atg	240
Val	Ser	Gly	Leu	Ile	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Leu	Tyr	Met		
											75					80	
	aga	ggt	ggt	tgg	ata	gac	act	ggt	gat	acc	cca	aca	gta	ttc	aga	tat	288
Arg	Gly	Val	Trp	Ile	Asp	Thr	Gly	Asp	Thr	Pro	Thr	Val	Phe	Arg	Tyr		
											85					90	
	att	gat	tgg	tta	tta	act	gtt	cca	tta	caa	gtg	gtt	gag	ttc	tat	cta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Gln	Val	Val	Glu	Phe	Tyr	Leu		
											100					105	
																110	

Figure 34-A

REPLACEMENT SHEETS

Figure 34-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230				235							240
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						753
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Asn						245
																250

Figure 34-C

REPLACEMENT SHEETS

	atg	ggt	aaa	tta	tta	ctg	ata	tta	ggt	agt	att	gca	ctt	cca	tca	48
Met	Gly	Lys	Ieu	Ieu	Ieu	Ieu	Ile	Ieu	Gly	Ser	Ala	Ile	Ala	Leu	Pro	Ser
1										10						15
	ttt	gct	gct	gct	ggt	ggc	gat	cta	gat	ata	agt	gat	act	gtt	ggt	gtt
Phe	Ala	Ala	Ala	Gly	Gly	Gly	Asp	Leu	Asp	Ile	Ser	Asp	Thr	Val	Gly	Val
										20						96
	tca	ttc	tgg	ctg	gtt	aca	gct	ggt	atg	tta	gcg	gca	act	gta	ttc	ttt
Ser	Phe	Trp	Leu	Val	Thr	Ala	Gly	Met	Leu	Ala	Ala	Thr	Val	Phe	Phe	144
										35						45
	ttt	gta	gaa	aga	gac	caa	gtc	agc	gct	aag	tgg	aaa	act	tca	ctt	act
Phe	Val	Glu	Arg	Asp	Gln	Val	Ser	Ala	Lys	Trp	Lys	Thr	Ser	Leu	Thr	192
										50						55
	gta	tct	ggt	tta	att	act	ggt	ata	gct	ttt	tgg	cat	tat	ctc	tac	atg
Val	Ser	Gly	Leu	Ile	Thr	Gly	Ile	Ala	Phe	Trp	His	Tyr	Ieu	Tyr	Met	80
										65						70
	aga	ggt	ggt	tgg	ata	gat	act	ggt	gat	aca	cca	aca	gta	ttt	aga	tat
Arg	Gly	Val	Trp	Ile	Asp	Thr	Gly	Asp	Thr	Pro	Thr	Val	Phe	Arg	Tyr	288
																85
	att	gat	tgg	tta	tta	act	gtt	cca	caa	atg	gtt	gag	ttc	tat	cta	336
Ile	Asp	Trp	Leu	Leu	Thr	Val	Pro	Leu	Gln	Met	Val	Glu	Phe	Tyr	Leu	100
																105

Figure 35-A

REPLACEMENT SHEETS

Figure 35-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225					230				235							
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						753
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Ala						
245					250											

Figure 35-C

REPLACEMENT SHEETS

Figure 36-A

REPLACEMENT SHEETS

Figure 36-B

REPLACEMENT SHEETS

tat	aac	ctt	gct	gac	ttt	gtt	aac	aag	att	cta	ttt	ggt	ttg	atc	att	720
Tyr	Asn	Leu	Ala	Asp	Phe	Val	Asn	Lys	Ile	Leu	Phe	Gly	Leu	Ile	Ile	
225																240
tgg	aat	gtt	gct	gtt	aaa	gaa	tct	tct	aat	gct						753
Trp	Asn	Val	Ala	Val	Lys	Glu	Ser	Ser	Asn	Asn						
245																250

Figure 36-C

REPLACEMENT SHEETS

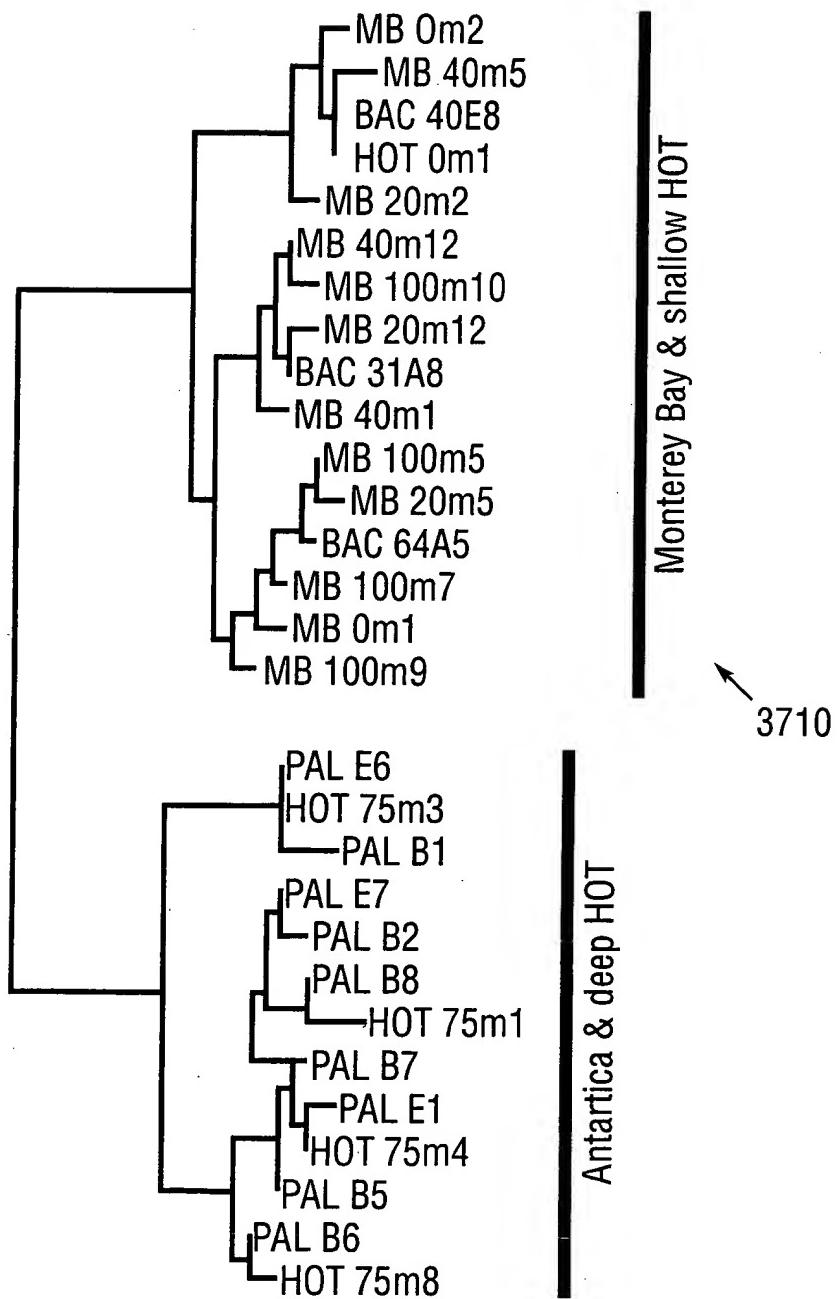


Figure 37

REPLACEMENT SHEETS

1
 m k l i i i i g S V I A L P T F A A G G G D L D A S D Y
 - - - - - - - - -
 - - - - - - - - -
 - - - - - - - - -
 - a - - - s - - - a - - - i - - t
 - a - - - s - - - a - - - i - - t
 3820 3820 3820 3820
 8 9
 S P T V E R Y I D L L T V P L L I C E F Y L I L A A T N V A G S L F K L L
 - - - - - - - - -
 - - - - - - - - -
 t - - - q m v - - - c - s - - -
 t - - - q v v - - - c - s - - -
 3820 3820 3820 3820
 1 6 9 3810
 G E G K S A C N T A S P A V Q S A Y N T M M Y I I I F G W A I Y P V G Y F T G Y
 - - - - - - - - -
 - - - a - - - - - - -
 - - - - v s - - - - n - - - a - - - k - - - i - - -
 - - - v s - - - - n - - - a - - - m - - - v - - - a - - -
 3820 3820 3820 3820
 3820
 3810

Figure 38A

REPLACEMENT SHEETS

Figure 38B

REPLACEMENT SHEETS

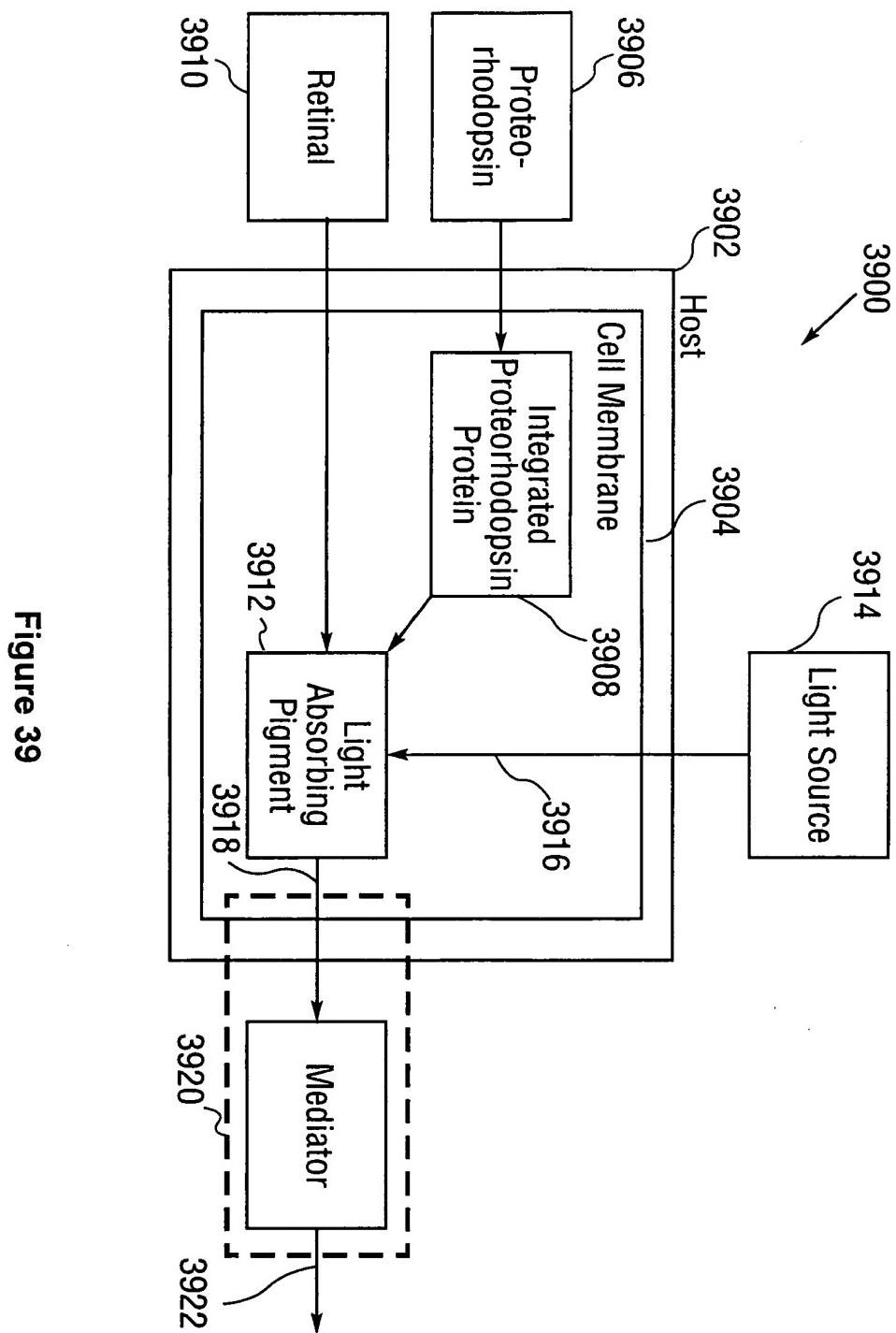


Figure 39

REPLACEMENT SHEETS

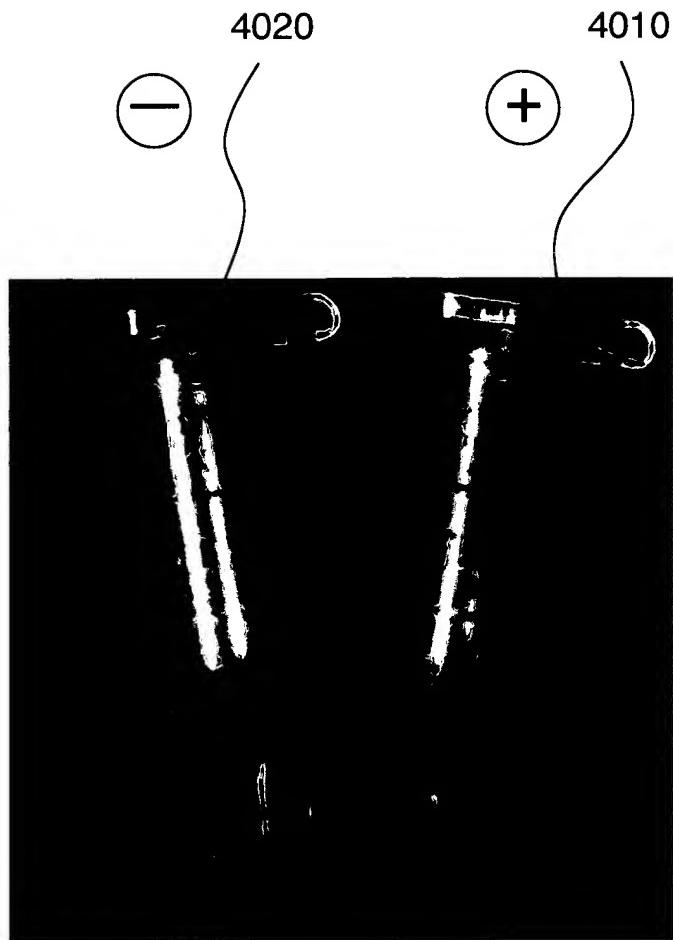


Figure 40

REPLACEMENT SHEETS

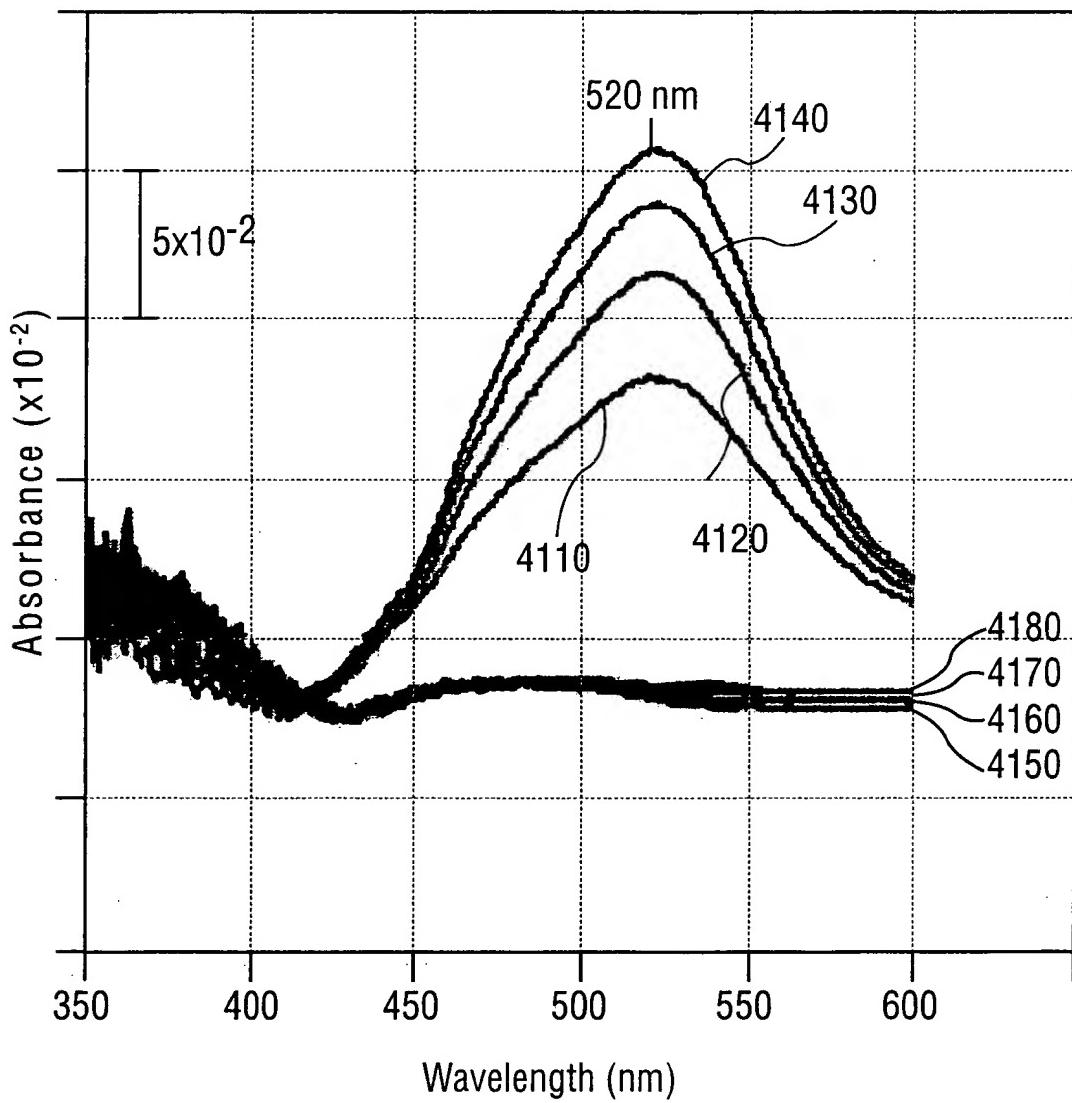


Figure 41

REPLACEMENT SHEETS

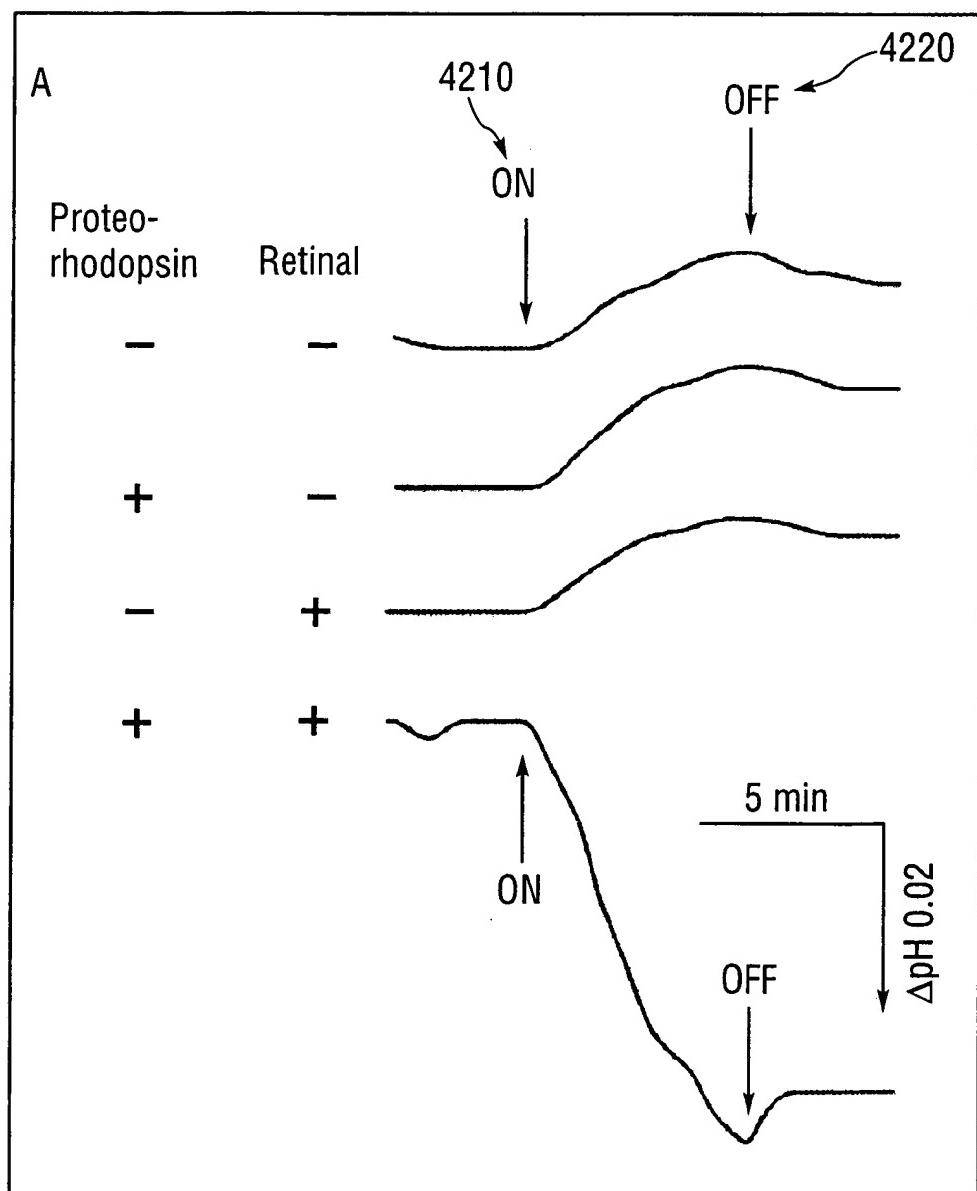


Figure 42

REPLACEMENT SHEETS

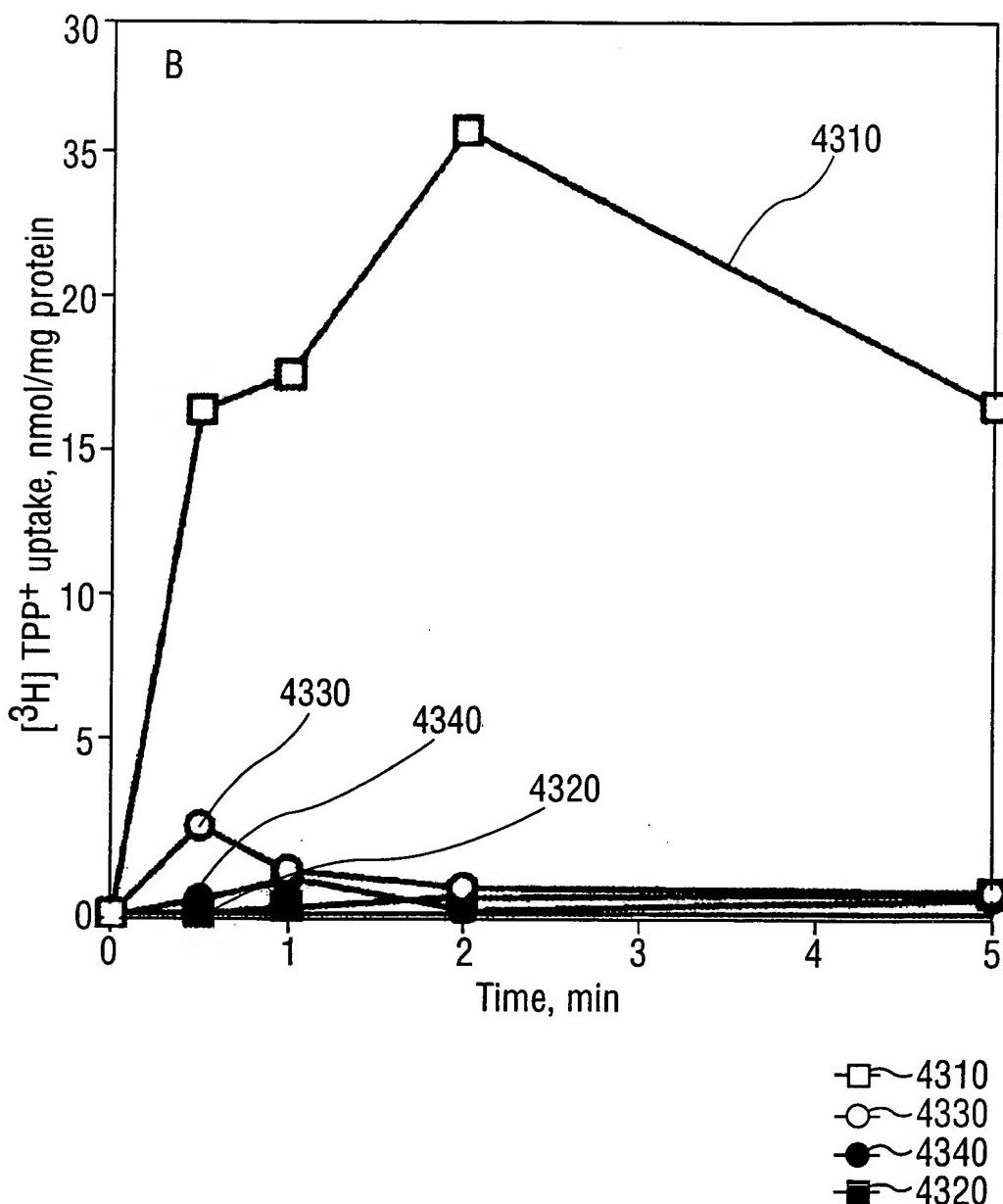


Figure 43

REPLACEMENT SHEETS

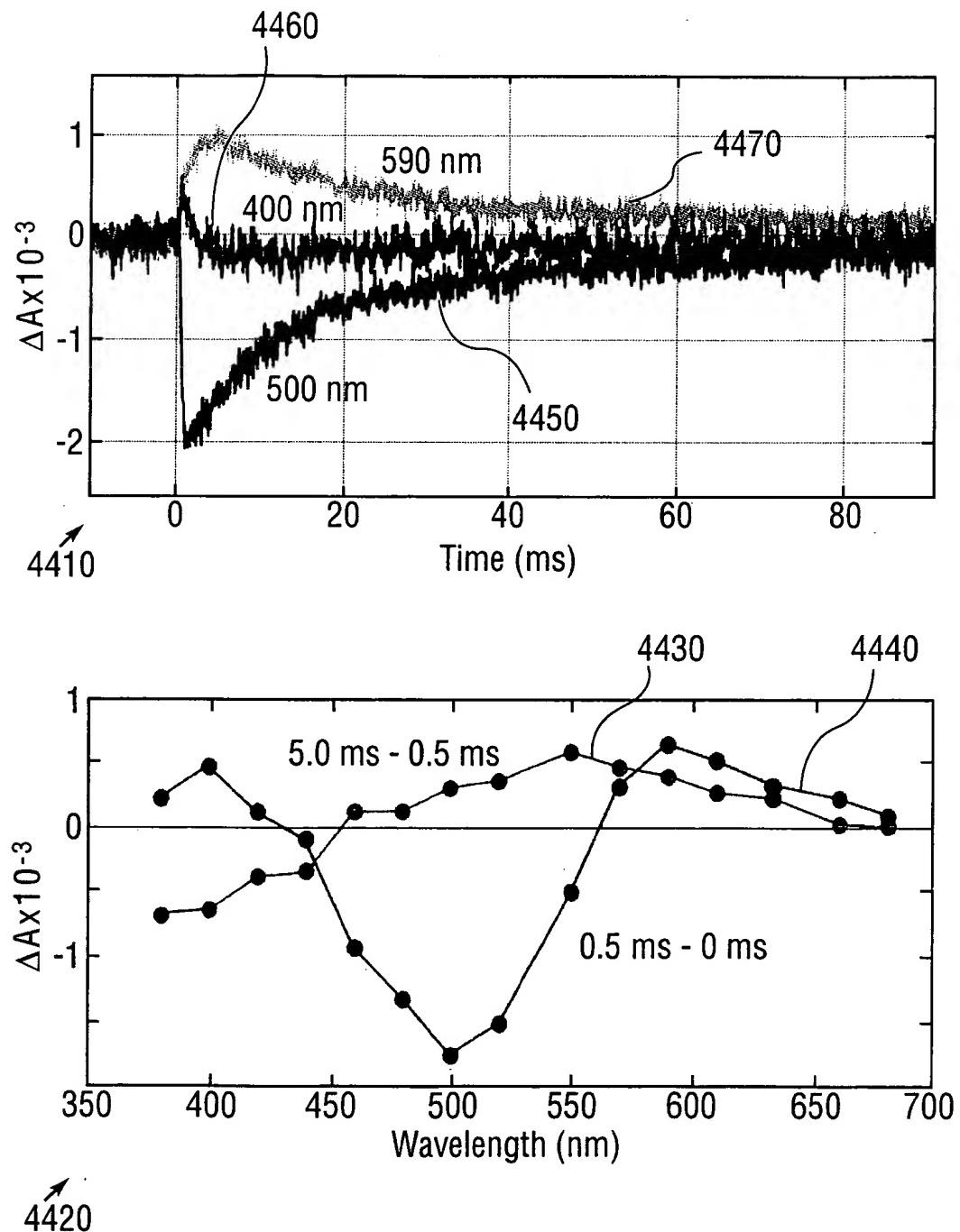


Figure 44

REPLACEMENT SHEETS

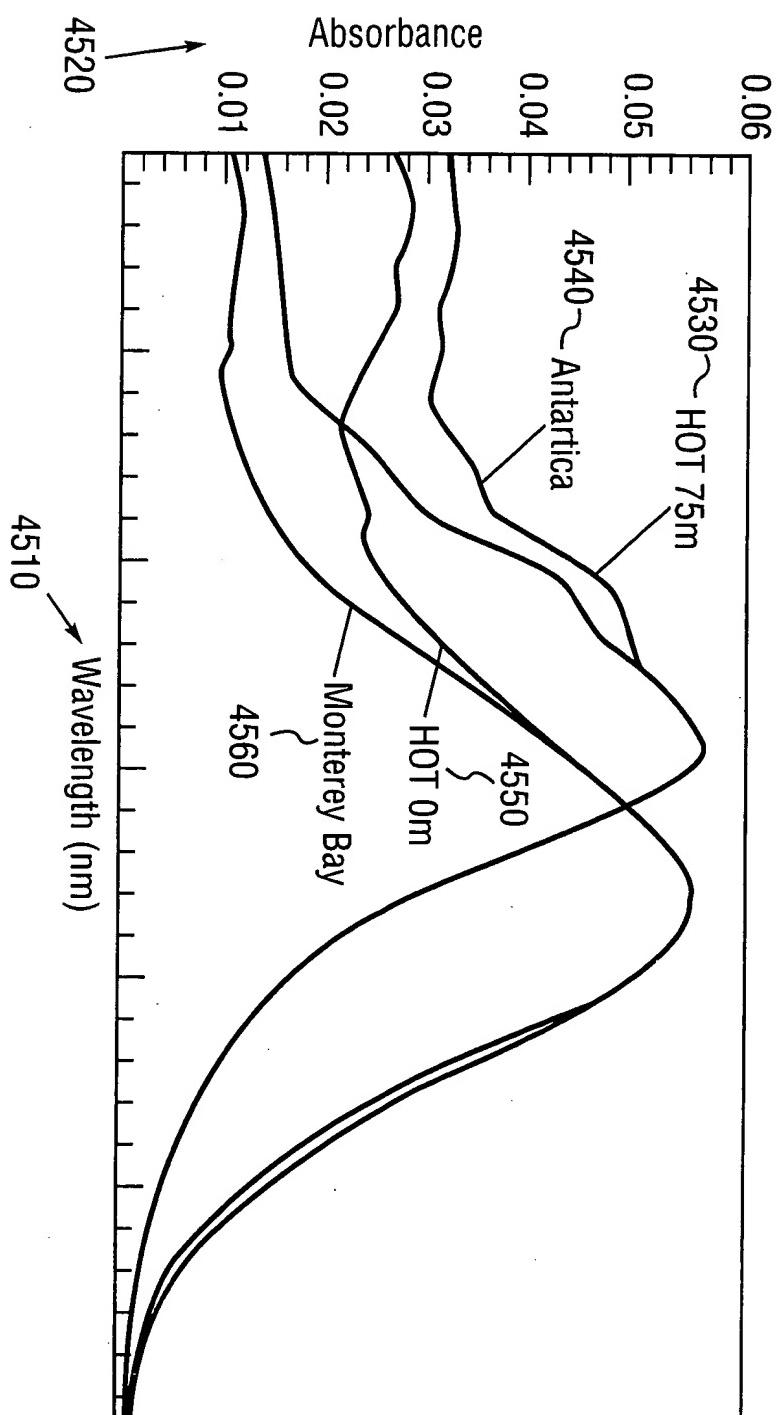


Figure 45